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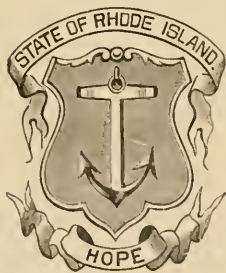




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TWENTY-FOURTH ANNUAL REPORT  
OF THE  
STATE BOARD OF HEALTH,  
OF THE  
STATE OF RHODE ISLAND,  
FOR  
THE YEAR ENDING DECEMBER 31, 1901,  
AND INCLUDING  
THE REPORT UPON THE REGISTRATION OF  
BIRTHS, MARRIAGES, AND DEATHS IN 1900.



PROVIDENCE, R. I.  
E. L. FREEMAN COMPANY, STATE PRINTERS.  
1907.

## MEMBERS

OF THE

# RHODE ISLAND STATE BOARD OF HEALTH.

---

*Post Office Address.*

|                                                  |                  |                    |
|--------------------------------------------------|------------------|--------------------|
| ALBERT G. SPRAGUE, M. D., <i>President</i> ..... | RIVER POINT..... | KENT COUNTY.       |
| SAMUEL M. GRAY, C. E.....                        | PROVIDENCE.....  | PROVIDENCE COUNTY. |
| JOHN C. BUDLONG, M. D.....                       | PROVIDENCE.....  | PROVIDENCE COUNTY. |
| REV. GEORGE L. LOCKE.....                        | BRISTOL.....     | BRISTOL COUNTY.    |
| ALEXANDER B. BRIGGS, M. D.....                   | ASHAWAY.....     | WASHINGTON COUNTY. |
| RUFUS E. DARRAH, M. D.....                       | NEWPORT.....     | NEWPORT COUNTY.    |
| GARDNER T. SWARTS, M. D.....                     | PROVIDENCE.....  | PROVIDENCE COUNTY. |

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GARDNER T. SWARTS, *Secretary*.

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MAY 23 1907  
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*To the Honorable the General Assembly:*

In compliance with the General Laws, the Annual Report of the State Board of Health is hereby respectfully submitted.

GARDNER T. SWARTS,

*Secretary.*



## GENERAL REPORT.

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The work of the State Board of Health during the year has been a continuation of the study of the various conditions pertaining to the public health, especial use being made of the more recent methods of diagnosis and investigation which have been made available during the past few years.

### CONTAGIOUS DISEASES.

Monthly reports of the number of cases of communicable diseases which have occurred in the various towns, including scarlet fever, diphtheria, and typhoid fever, have been continued. This makes it possible for comparison of the comparative prevalence of any of these diseases in any of the towns or throughout the State. These records were begun in the year 1894, and thus comparison of increase or decrease may be made. The local health authorities are yearly giving more intelligent attention to this class of work, and the control of these diseases has been more thoroughly systematized.

### WATER SUPPLIES.

There has been no change in the system of water supplies of the State since the previous report.

The city of Providence has made several attempts to obtain a system of filtration for the purification of its water supply; but owing to differences of opinion in regard to the manner in which this should be accomplished, the adoption of any plan has been made impossible.

The supply of Woonsocket continues the same. The water-shed is closely guarded, and is completely controlled by the city by owner-

ship of the entire water-shed. Legal control of this supply is the only public law which has ever been enacted for the protection of drinking-water in this State.

Although the enlarged reservoir of the Newport Water Company has given an increased available supply, yet the constantly increasing demand and the limited water-shed require the utmost economy to be exercised to avoid unnecessary waste.

The Bristol Water Company continues to supply the towns of Bristol and Warren. The endeavor of the town of Bristol to purchase the entire system has been in the hands of a master of arbitration for several years, and there appears little prospect of a change of ownership at present. The quality of the water remains the same. The water-shed is shallow, and the storage also. The chance of contamination is extremely slight, but increase of population and industries will in time cause danger, and depends upon the surface washings from fields occupied by cattle. The high color and woody taste remain of the same intensity.

The water supply of the city of Pawtucket, which supplies a large number of the surrounding towns and villages, still maintains its superior quality. Although filtered through a coarse gravel or pebble and charcoal bed, yet this probably removes little but the coarser matters, which are held in suspension. It does not serve to remove any of the dangerous elements which might find their way into the river from careless use of mill privy vaults. A certain amount of inspection of the banks of the river is maintained, and any possibility of contamination is corrected as soon as discovered.

There exists at one point on the stream a mill which has its so-called tight privy-box so located that an overflow from this might be carried into the stream in time of heavy rains.

#### EXAMINATION OF WATER SUPPLIES.

The regular inspection of the banks of the Pawtuxet river for existing pollutions or possible intent to contaminate the river through

desire to dispose of refuse, or by ignorance, has been continued by the inspectors engaged by the city of Providence, and under the direction of the commissioner of public works of that city. The fact remains, however, that there is always the possibility of the river being contaminated by some member of the population in that district placing noxious matter in the stream. The last prevalence of typhoid fever, connected with the water supply, was traced to contamination placed in the river by attendants of a typhoid patient. To thoroughly dispose of the excrement, and to insure its removal from the premises, the stools of the patient were all dumped into the river. Manufactories upon the stream have large quantities of dye-stuffs to dispose of. An endeavor is made to filter or precipitate the suspended matters in these wastes. The result is more or less successful, but at times, owing to the necessity of cleansing the clogged filter, it is alleged that the wastes are allowed to go free into the stream, thereby heightening the color of the supply, if not possibly admitting other filth which may prove injurious to those ingesting the water.

A semi-monthly chemical analysis of the water is made by the city of Providence, the sample being taken from the intake at the Pettaconset pumping-station, and also a bacteriological and chemical analysis is made by this board, every two weeks, of samples taken at the villages of Hope and Washington, above points of pollution, as well as of a sample taken from the Pettaconset pumping-station, at the point where the water is taken from the river, and at the tap in the laboratory located in the centre of the city of Providence.

This data has been obtained for several years, and now proves of great value to the city of Providence in determining the comparative values of the waters now used as compared with the supply at previous times. It also makes possible a comparison of the quality of the supply as found before and after pollution. As is to be expected, the water received at the Pettaconset pumping-station (and which is supplied to the city through the reservoir at Sockanosset and thence through pipes to the city) shows a greatly inferior quality from that

taken from the two points above any source of pollution, namely, at Hope and Washington.

Although this has been stated many times, and is in full knowledge by the board of public works and by the council of the city of Providence, yet no attempt has been made to correct this condition. The joint special committee of the common council, appointed to report upon the means at hand for the purification of the supply, replied that it was not only desirable but necessary that the water be purified before being delivered to the consumers, and that it was possible to do this by means of either sand filtration or by mechanical filtration, but that mechanical filtration was to be preferred, and has recommended it to the council, on account of its lower first cost, its simplicity in operation, its perfect control in cleaning, and from its non-dependence upon severe changes in the weather during the winter months.

Opposition to the process of mechanical filtration was made by certain physicians, an account of the presumed possibility of the alum, used in the process as a precipitant or coagulant, getting into the filtered water and being a source of danger to the public. While this objection was not supported by any data or facts in regard to the danger of the use of alum in this manner, yet the sentiment against its use prevailed with the common council; and while the endeavor to establish such a plant was defeated, yet no attempt was made to introduce and pass a resolution recommending that sand filtration be adopted. The city was therefore allowed to drift along, supplying a contaminated water to its consumers, with the possibility of an epidemic occurring at any time.

The East Providence Water Company supplies a portion of the town of East Providence, the water being taken from the Ten Mile river at Hunt's Mills. This river, as stated in a previous report, passes through a populous district and receives the washings of the water-shed from fields which are more or less fertilized. In addition, the stream receives the wastes from sewers and waste-pipes from factories and from the town of Attleboro, Mass. The number of

persons contributing to this contamination is estimated at 3,500. Dye-stuffs and acid washings from dye-houses and jewelry manufactories add to the pollution. It becomes necessary either to abandon this supply or to cause the nuisances in the form of pollution to be abated, or to purify the contaminated water before delivery to the consumers.

As stated in previous reports, attention was given to this matter, inspections were made, communications sent to the State Board of Health of Massachusetts asking for relief from the contaminations, and it was replied from that board that nothing could be effected by them. The owners of the water company were warned as to the continued use of the water without purification, and they gave the subject immediate attention. A mechanical filtration plant has been established, and has been in operation since February 26th, 1899.

Periodical examinations of the supply and of the filtered water from this plant have been made by the board, both chemically and bacteriologically. The change of the condition of the water for the better has been marked. No amount of coagulatory chemicals has found in the effluent or filtered water, while the filter has maintained the bacterial efficiency which was obtained during the series of tests conducted during the year 1899 and published in the report for that year. The results of the examinations made during this year will be found in another part of this report.

#### EXAMINATION OF SPUTUM FROM CASES OF SUSPECTED TUBERCULOSIS.

The free examination by the board of all samples of sputum received from cases of suspected tuberculosis, for physicians only, has been continued with gratifying results. By this means a physician is assisted in making an early discovery of the presence of this disease and is able to give to his patient more prompt and assiduous attention. The patients are at times made aware of the fact that they are suffering from this disease while in its incipency, and are warned at once to obtain for themselves such treatment as may be available.



The public receives the benefits from this work by the greater care of the patient to avoid indiscriminate expectoration, thus reducing in a great measure the opportunities of spreading the disease. Money spent by the State in this manner is a good investment.

#### EXAMINATION OF CULTURES IN CASES OF SUSPECTED DIPHTHERIA.

The examinations of the secretions of the throat and the growths therefrom upon a nutrient blood serum, for physicians, in cases suspected to be diphtheria, have been continued with the same advantage to the physician, the public, and the health officer as in previous years. Many cases of simple pharyngitis presenting no clinical symptoms of diphtheria have been found to contain the organisms which produce this disease; the corroboration of the bacteriological diagnosis being confirmed later by the appearance of the membrane and the train of symptoms to be found in diphtheria. This system of control was commenced by this board in 1894, Rhode Island being the first State to establish the system as a State, the city of New York being the pioneer health department in this matter.

#### APPROPRIATIONS.

An annual appropriation of \$6,000 was made at the January session of the legislature for a continuance of the work of the board. The increase in the amount from two years previous was made necessary in order to carry out the work of the chemical laboratory and to make it possible for the board to make certain experimental research in connection with the workings of several sewage disposal plants being operated by cities and towns.

The data acquired from the latter study is of value in determining for other cities and towns, and for manufacturing plants, the most advisable means of disposing of sewage and manufacturing wastes.

A special appropriation of \$1,000 was made by the legislature for the special use of investigation and prevention of diphtheria. A like appropriation for the examination of sputum and study of tuberculosis was also made.

## PERSONNEL OF THE BOARD.

The term of membership of Dr. Alexander B. Briggs, member of the board from Washington county, expired by limitation January 31, 1901.

Governor Charles D. Kimball, at the January session of the General Assembly, with the advice and consent of the senate, re-appointed Dr. Briggs for a term of six years from January 31, 1901.





SECRETARY'S REPORT.

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TOWN SANITATION.

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1901



# REPORTS FROM TOWNS,

IN RELATION TO SANITARY IMPROVEMENTS, ETC.

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It has been observed, in the previous issues, that a complete annual report of a State Board of Health properly includes an account of the measures taken each year by the municipal authorities, corporations, or individuals for the promotion of the health of the communities under their respective supervision or control. In order, therefore, to ascertain the facts in relation to such measures, and for the purpose of presentation in this report as in the reports heretofore issued, and in the continuance of the design to keep well informed of all proceedings throughout the State on the part of town or city councils or any form of municipal authority in the appointment of health officers or boards of health, and in the direction of improvements which have in view and seem to promise the promotion of public health by the abatement of nuisances or the removal of unsanitary conditions and surroundings, or by the introduction of water for general use, or construction of sewers, or the establishment of other public works which may not only be of great public utility and convenience but also serve in some measure, large or small, in the prevention of disease, the secretary has, as heretofore, solicited replies from the town and city clerks of the several towns and cities, or other municipal officers, in answer to questions proposed in a circular sent for that purpose.

It is designed and hoped that a connected history may thereby be secured of all sanitary improvements of a public character in all parts of the State, from year to year; and the gradual awakening

of the citizens of the different towns to the necessity of sanitary public measures thereby be shown; and also whatever intelligent appreciation of such necessity, and whatever public spirit in existence in the towns there may be, may be known as manifested by the readiness with which needed sanitary measures are adopted.

The following is the form of circular sent at close of the year 1901:

CIRCULAR No. 130.

OFFICE OF SECRETARY OF STATE BOARD OF HEALTH,

STATE HOUSE,

PROVIDENCE, R. I., Jan. 1, 1902.

*To the Town Clerk:*

It is, by statute law, made the duty of the secretary of the State Board of Health to make inquiries of town or city clerks, or of the clerks of local boards of health, in regard to the general health and sanitary condition of the towns, and also in regard to measures taken for the improvement of the same, as may be seen by the following section from the

PUBLIC STATUTES, CHAPTER 83.

"SEC. 6. The secretary of the said board shall make inquiry, from time to time, of the clerks of town and local boards of health, and practicing physicians, in relation to the prevalence of any disease, or knowledge of any known or generally believed source of disease, or causes of general ill-health, and also in relation to the proceedings of the said boards of health in respect to acts for the promotion and protection of the public health, and also in relation to diseases among domestic animals, in their several towns and localities, respectively; and the said clerks of town and local boards of health and said practicing physicians shall give such information in reply to said inquiries, of such facts and circumstances as have come to their knowledge."

*In order to make complete the annual report of this board to the General Assembly, the secretary would respectfully ask your co-operation by answers to the following questions:*

1. Has any work for the promotion of public health been contemplated or

completed in your town by the town authorities, or by private enterprise, during the year? If any, please state what.

2. If by introduction or extension of water service for general use, please state what proportion of the population, by estimation, was supplied with the same at the end of the year.\*

3. If city or town has sewage system, state the aggregate length of sewers, by estimation or otherwise, and about what proportion of the population has drainage connected with them at the end of the year.\*

4. If by new ordinances in abatement of nuisances, or for any sanitary purpose, please send copy of same; also state how far, to your best knowledge, all the sanitary ordinances have been enforced. Copies of town ordinances especially desired.

5. Has your town any legal board of health beside the town council? If so, please give the names of the officers of the same.

6. Please give the names of the health officers of your town.

7. Has gratuitous vaccination been provided in your town during the past year? What proportion of the population was vaccinated, according to your best knowledge?

8. Have undertakers promptly sent in their returns of death? Please give names of any who do not. (See Public Statutes, Chap. 85, Sec. 1.)

9. Do clergymen make returns of marriages promptly each month, as required by Public Statutes, Chap. 85, Sec. 4?

Thanking you in advance for your assistance, I am,

Yours truly,

GARDNER T. SWARTS,

*Secretary.*

N. B.—The town or other clerk should charge a remunerative fee for replying to the above circular, and present to the town council or board of health, it being a service required by law.

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\* If not known by the person replying, please state where or of whom such information may be obtained.

## BRISTOL COUNTY.

## BARRINGTON.

1. Complaint of the pollution of a stream at Drownville by the Annawamscutt Mills was made to the town council, and an examination and investigation was made by that body and steps taken to protect the public health in that vicinity. We trust that satisfactory results have been obtained.
2. There has been no extension of the public water service of this town during the year.
3. This town has no sewage system.
4. There have been no new sanitary ordinances enacted during the year. Those in force have never been better enforced than now. (See contagious disease ordinance, 1897, p. 10.)
5. This town has no legal board of health other than the town council.
6. Charles H. Bowden declined to serve another term as health officer, and Fred H. Devere, M. D., was elected in his place.
7. Gratuitous vaccination was provided for children during the year. Most of them who availed themselves of the same were school children, as none are allowed to attend school without a physician's certificate.
8. Undertakers have promptly made returns of deaths.
9. Clergymen make returns of marriages promptly.

FREDERICK P. CHURCH, *Town Clerk.*

## BRISTOL.

1. Nothing special for the promotion of the public health has been contemplated during the year. Ordinances relating to sanitary matters have been rigidly enforced.
2. All the compact part of the town and about one-half the outlying districts are supplied by the public water service.
3. This town is putting in a complete system of sewers under an act passed by the General Assembly.
4. No sanitary ordinances have been enacted during the year.
5. This town has no legal board of health other than the town council.
6. Thomas F. Head, health officer.

7. Gratuitous vaccination has been provided during the year.
8. Undertakers respond promptly.
9. Clergymen respond promptly.

HERBERT F. BENNETT, *Town Clerk.*

#### WARREN.

1. Nothing special for the promotion of the public health has been done during the year.
3. This town has no public sewage system. Several streets have sewers laid by private parties.
4. No sanitary ordinances have been enacted during the year.
5. This town has no legal board of health other than the town council.
6. George L. Drown, health officer.
8. The death returns are generally sent in with promptness by a majority of the undertakers.
9. Clergymen are not always prompt in making returns of marriages.

CHARLES B. MASON, *Town Clerk.*

#### KENT COUNTY.

##### COVENTRY.

1. Nothing for the promotion of the public health has been done during the year.
5. This town has no legal board of health other than the town council.
6. John Winsor, M. D., health officer.
7. Gratuitous vaccination has been provided during the year, and about one-fifth of the population has availed itself of the same.
8. Undertakers are not all prompt in making returns of deaths.
9. Clergymen make returns of marriages promptly.

GEORGE B. PARKER, *Town Clerk.*

##### EAST GREENWICH.

1. Nothing for the promotion of the public health has been contemplated during the year.

2. There are about 500 water taps in town, and fully 64 per cent. of the population is connected therewith.

3. The approximate length of sewers in this town is 6,335 feet. This affords drainage to 125 estates, 75 per cent. of which have connections made. The population of the area drained is about 700.

4. No sanitary ordinances have been enacted during the year. Those already in force have been well enforced as far as is known. (See health ordinances, report of 1894, p. 27; and 1900, p. 15.)

5. This town has no legal board of health other than the town council.

6. Elbridge G. Carpenter, M. D., health officer.

7. Gratuitous vaccination has been provided during the year, and according to physicians' returns filed at this office, 301, or about .108 of the population, have availed themselves of the same.

8. Undertakers are prompt in making returns of deaths.

9. Clergymen make returns of marriages promptly.

GEORGE A. LOOMIS, *Town Clerk.*

#### WEST GREENWICH.

1. Nothing for the promotion of the public health has been done during the year.

2. This town has no public water service.

3. This town has no sewage system.

4. No sanitary ordinances have been enacted during the year.

5. This town has no legal board of health other than the town council.

6. This town has no health officer.

7. Gratuitous vaccination has not been provided during the year.

8. Undertakers are prompt in making returns of deaths.

9. Clergymen make returns of marriages promptly.

OTHO TARBOX, *Town Clerk.*

#### WARWICK.

1. Nothing for the promotion of the public health has been done during the year.

2. This town has no public water service.

3. This town has no sewage system.



4. No new sanitary ordinances have been enacted during the year. (Contagious disease ordinances, see report of 1893, p. 45.)
5. This town has no legal board of health other than the town council.
6. Albert G. Sprague, M. D., health officer.
8. Undertakers have made prompt returns of deaths.
9. Clergymen are not as prompt as desirable in making returns of marriages.

JAMES T. LOCKWOOD, *Town Clerk.*

## NEWPORT COUNTY.

### JAMESTOWN.

1. The extension of the town sewers is the only work for the promotion of the public health done during the year.
2. Two-thirds of the population of this town are supplied by the public water service.
3. Two-thirds of the population of this town are connected with the sewers. The aggregate length of sewers in this town is four and a half miles.
4. No new sanitary ordinances have been enacted during the year. The present ones are not as well enforced as they should be. (Health laws, see report of 1893, p. 46; also 1894, p. 29; 1898, p. 15; 1900, p. 16.)
5. This town has no legal board of health other than the town council.
6. Gideon Latham, health officer.
7. Gratuitous vaccination was provided in this town during the year, and about one-eighth of the population availed itself of the same.
8. Undertakers have made prompt returns of deaths.
9. Clergymen make returns of marriages promptly.

WILLIAM F. CASWELL, *Town Clerk.*

### LITTLE COMPTON.

1. Nothing for the promotion of the public health has been done during the year.
2. The water service of this town consists only of wells and cisterns.
3. This town has no sewage system.
4. No new sanitary ordinances have been enacted during the year. (Contagious disease ordinances, see report 1898, p. 16.)

5. This town has no legal board of health other than the town council.
6. John G. Hathaway, M. D., health officer.
7. Gratuitous vaccination was provided in this town during the year, and about ten per cent. of the population availed itself of the same.
8. Undertakers have made prompt returns of deaths.
9. As a general rule, clergymen make prompt returns of marriages.

JOHN B. TAYLOR, *Town Clerk.*

#### MIDDLETOWN.

1. No extended work has been done in this town during the past year calculated to promote or protect the public health of the people dwelling therein.
2. There has been little, if any, extension of water service. The Newport Water Co. continues to furnish water to a limited number of families.
3. This town has no system of sewage. In a few instances sink drains and cesspools have for some years been turned into the highways.
4. During the year no new ordinances were enacted. Ordinances passed in former years have not been rigorously enforced. Most of the precautions taken to prevent the spread of contagious diseases were by private families under the direction and without the aid of the town officer. (Contagious disease ordinances, see report of 1893, p. 48.)
5. The town council is the only board of health.
6. George E. Ward, health officer.
7. During November gratuitous vaccination was provided by the town council and Dr. C. F. Barker, of Newport, was employed for that purpose. The number of vaccinations reported by him was 125.
8. Undertakers have generally made prompt returns of deaths.
9. But few marriages are solemnized in this town. Those which do take place here are promptly returned.

ALBERT L. CHASE, *Town Clerk.*

#### NEWPORT.

No reply from the city clerk.

5. The board of health of the city of Newport is composed of five members. The report of this board will be found under the division of reports from health officers.

## NEW SHOREHAM.

1. Nothing special for the promotion of the public health has been done during the year.

6. Hamilton A. Mott, health officer.
7. Gratuitous vaccination was not held during the year.
8. Undertakers make prompt returns of deaths.
9. Clergymen make returns of marriages promptly.

EDWARD P. CHAMPLIN, *Town Clerk.*

## PORTSMOUTH.

No reply from the town clerk.

## TIVERTON.

1. Nothing for the promotion of the public health has been done during the year.

2. This town has no public water service.
3. This town has no sewage system.
4. No new ordinances have been enacted during the year. (Contagious disease ordinance, see report of 1900, p. 19.)
5. This town has no legal board of health other than the town council.
6. Edward P. Stimson, M. D., health officer.
7. Gratuitous vaccination was provided for at the last meeting of the council but has not as yet been commenced.
8. Undertakers make prompt returns of deaths.
9. Clergymen make returns of marriages promptly.

A. LINCOLN HAMBLY, *Town Clerk.*

## PROVIDENCE COUNTY.

## BURRILLVILLE.

1. Nothing for the promotion of the public health has been done during the year.

2. This town has no public water service.
3. This town has no sewage system.

4. No new ordinances have been enacted during the year. The health officer has sharply looked after all public nuisances. (Contagious disease ordinances, see report of 1897, p. 20.)

5. This town has no legal board of health other than the town council.

6. John W. Clavin, health officer.

7. Gratuitous vaccination was provided by the town council during the year, and many took advantage of the same. I should say that about 20 per cent. of the population were so vaccinated. It is impossible to state how many paid for vaccination by their own physicians.

8. Undertakers make fairly prompt returns of deaths.

9. Clergymen make returns of marriages promptly.

EDGAR A. MATHEWSON, *Town Clerk.*

#### CENTRAL FALLS.

5. This city has no legal board of health other than the board of aldermen.

6. Charles F. Sweet, M. D., health officer.

7. Gratuitous vaccination was provided during the year, and 977 persons availed themselves of the same.

8. Undertakers make prompt returns of deaths.

9. Clergymen make returns of marriages promptly.

C. FRED CRAWFORD, *City Clerk.*

#### CRANSTON.

1. Nothing for the promotion of the public health has been done during the year.

2. The public water supply of this town is that of the city of Providence.

3. This town has no sewage system.

6. D. S. Latham, M. D., and John Bigbee are the health officers of this town.

7. Gratuitous vaccination was provided during the year, but the proportion of the population vaccinated is unknown to me.

8. Undertakers make prompt returns of deaths.

9. Clergymen make returns of marriages promptly.

DANIEL D. WATERMAN, *Town Clerk.*

## CUMBERLAND.

1. Nothing for the promotion of the public health has been done during the year.
2. This town has no public water service.
3. This town has no sewage system.
4. No new ordinances have been enacted during the year. (Contagious disease ordinance, see report of 1893, p, 53.)
5. This town has no legal board of health other than the town council.
6. Raynor Woodhead, M. D., health officer.
7. Gratuitous vaccination was provided during the year.
8. Undertakers make prompt returns of deaths.
9. Clergymen make returns of marriages promptly.

JOHN F. CLARK, *Town Clerk.*

## EAST PROVIDENCE.

1. Nothing for the promotion of the public health has been done during the year.
4. No new ordinances have been enacted during the year. (Contagious disease ordinances, see report of 1893, p. 54.)
5. This town has no legal board of health other than the town council.
6. Mason B. Wood, health officer.
7. Gratuitous vaccination was provided during the year, and according to the records 150 person availed themselves of the same.
8. Undertakers make quite prompt returns of deaths.
9. Clergymen are not quite as prompt as desirable in making returns of marriages.

WILLIAM E. SMYTH, *Town Clerk.*

## FOSTER.

1. Nothing for the promotion of the public health has been done during the year.
5. This town has no legal board of health other than the town council.
6. Henry Arnold, M. D., health officer.

7. Gratuitous vaccination was not provided during the year.
8. Undertakers make prompt returns of deaths.
9. Clergymen make returns of marriages promptly.

EMORY D. LYON, *Town Clerk.*

#### GLOCESTER.

1. Nothing for the promotion of the public health has been done during the year.
2. This town has no public water service.
3. This town has no sewage system.
4. No new sanitary ordinances have been enacted during the year. All previous ordinances have been well enforced.
5. This town has no legal board of health other than the town council.
6. George A. Harris, M. D., health officer.
7. Gratuitous vaccination was provided during the year, and 406 persons availed themselves of the same.
8. Undertakers have made returns of death promptly.
9. Clergymen are generally prompt in making returns of marriages.

FRANK F. DAVIS, *Town Clerk.*

#### JOHNSTON.

4. (Contagious disease ordinances, see report of 1896, p. 20.)
5. The board of health of this town is composed of Ralph H. Shaw, M. D., Hiram Kimball, and William H. Mathewson.
6. Ralph H. Shaw, M. D., health officer.
7. About 150 persons were vaccinated gratuitously during the year.
8. Undertakers make prompt returns of deaths.
9. Clergymen make returns of marriages promptly.

STERRY K. LUTHER, *Town Clerk.*

#### LINCOLN.

No reply from the town clerk.

4. (Contagious disease ordinances, see report of 1896, p. 25.)

## NORTH PROVIDENCE.

1. Nothing for the promotion of the public health has been done during the year.
2. There has been no extension of the public water service of this town. Very few are supplied by it.
4. No new ordinances have been enacted during the year.
5. This town has no legal board of health other than the town council.
6. John B. Corbett, M. D., health officer.
7. Gratuitous vaccination was not provided during the year.
8. Undertakers make prompt returns of deaths.
9. Clergymen make returns of marriages promptly.

THOMAS H. ANGELL, *Town Clerk.*

## NORTH SMITHFIELD.

1. Nothing for the promotion of the public health has been done during the year.
2. This town has no public water service.
3. This town has no sewage system.
4. No new ordinances have been enacted during the year.
5. This town has no legal board of health other than the town council.
6. John B. Greene, health officer.
7. Gratuitous vaccination was provided during the year and was accepted very generally by the townspeople.
8. Undertakers make prompt returns of deaths.
9. Clergymen make returns of marriages promptly.

CHARLES E. SEAGRAVE, *Town Clerk.*

## PAWTUCKET.

2. Over 90 per cent. of the population of this city is supplied by the public water service.
3. About 69 per cent. of the population of this city is connected with the sewage system.
4. (Ordinances for removal of nightsoil and cesspools, and registration of deaths, see report of 1898, p. 23.)



The following extracts are taken from the report of the Board of Public Works:

Population (U. S. Census, 1900), 39,231.

Area of city, 8.940 square miles.

Total length of improved streets, 82.69 miles.

Total length of mains connected with the Pawtucket Water Works, 148.62 miles.

Total length of sewers, 46.68 miles.

Total length of electric railways, 23.52 miles.

Capacity of pumping engines, 12,000,000 per 24 hours.

Water pressure on Main street square, 110 pounds per square inch.

The general condition of the water supply showed an improvement over last year, owing mainly to the fact that the "Happy Hollow" pond contained enough water at all times so that no portion of the bottom of the same was exposed to the rays of the sun.

At the Diamond Hill reservoir the water was never more than four feet below the top of the dam, while at certain periods during the preceding year the water fell fourteen feet below the dam.

The filter at station three should be renovated, as the charcoal has become useless as a filtering material. Charcoal is quite expensive, and I would recommend that some other material, cheaper and equally effective, be used.

SUMMARY OF PUMPING AT NOS. 1, 2, AND 3 STATIONS FOR THE YEAR ENDING SEPTEMBER 30, 1901.

|                                                             |               |
|-------------------------------------------------------------|---------------|
| Total expenses for the year.....                            | \$21,834.03   |
| Total number of gallons pumped into reservoir.....          | 2,526,517,462 |
| Total cost of raising 1,000,000 gallons into reservoir..... | \$8.60        |
| Total cost of raising 1,000,000 gallons one foot high.....  | .032          |
| Average daily consumption of water in U. S. gallons.....    | 6,927,445     |
| Maximum daily consumption of water in U. S. gallons.....    | 9,809,688     |
| Minimum daily consumption of water in U. S. gallons.....    | 3,134,940     |

Respectfully submitted,

JOHN H. WALKER,

*Chief Engineer.*

FILTER FIELDS.

The 12.79 miles of sewers of the Moshassuck river district all deliver sewage to the filter fields, which purify all the dry-weather flow of the territory drained by these sewers and some of the storm-water as well. The 587 connections which have been made with the sewers of this section serve a population of over



4,400, and the amount of sewage treated at this plant has averaged 114,345 gallons per day during the past year. The maximum amount being about 170,000 gallons per day during December, 1900.

The analyses show this sewage to be of considerable strength, and the amount of sludge derived from it is annually increasing.

One of the difficult problems connected with all systems of sewage purification is the separation, treatment, and disposal of the sludge contained in the sewage. Our experimental work with a septic tank furnishes interesting figures for comparison with the figures obtained from the treatment of sewage by sedimentation and intermittent filtration during previous years.

Six years' experience with settled sewage has given an average of 3.14 cubic yards of sludge per million gallons of sewage treated, but recent figures, made during the months of August, September, and October, 1901, have shown that the amount of sludge has increased to 4.87 cubic yards per million gallons of sewage and that it weighs about 43.75 pounds per cubic foot. This makes the weight of sludge now handled per million gallons of sewage about 2.87 tons.

The amount of sludge collected in the septic tank has averaged, during both trials, 5.126 cubic yards per million gallons. The specific gravity of the sludge collected during the last experiment was 1.02, which would make the average weight of sludge that must be handled after treating sewage by the septic process 4.41 tons per million gallons. This latter sludge contains 79.11% of moisture and is more difficult to handle and much more offensive than the sludge which is raked from sand beds.

It is, however, only fair to say, in this connection, that with a septic tank adapted to the needs of this method of sewage purification, this sludge could probably, with the addition of more sewage, be pumped to some disposal area instead of shoveled into barrows and wheeled from the tank as we were obliged to do. The comparison of the nature and amount of this sludge is, however, of value.

Sludge from settled sewage, dried on sand beds, resembles patches of tarred paper a square foot or more in area and can be readily raked from the surface of such beds in dry weather. Sludge from the septic tank is a muddy and offensive mass of matter, difficult to handle in barrows and probably difficult to dry out on any sand beds on which it could be pumped, unless it could be spread upon the sand in a thin layer.

Our experience has been, that during warm weather sludge from settled sewage turned upon sand beds is more easily handled and disposed of than the sludge from a septic tank.

It is probably true that a septic tank of greater depth than that in which we were obliged to perform our experiments might accomplish a greater reduction of

sludge than we were able to obtain, but detailed and reliable data upon this subject seem to be lacking, at least in this country, where we are obliged to treat domestic sewage of considerable strength.

It seems probable that during the winter months, when the sludge from settled sewage will freeze on the surface of sand beds, will accumulate in considerable quantities and can only be removed after warm weather has arrived, the septic tank may offer a better solution of the sludge problem than such exposed beds of sand. We propose to experiment along this line the coming winter.

#### THE WORK OF THE SEPTIC TANK.

The experimental work with a septic tank and contact beds has been continued during the year with practically a repetition of the results outlined in the report of last year. For a connected and comprehensive study of these experiments it may be well to review the work of last year and to cover the whole period during which the sewage was treated in the septic tank.

On January 13, 1900, one of the receiving tanks located at this plant, which had heretofore been used for the purification of sewage by intermittent filtration, was turned into a septic tank. Although this tank was shallower than a good septic tank should be, it was the only thing available for experimental work and had to be taken. Its dimensions are 30x100x4 feet in depth and it will store sewage to a depth of three feet.

For a period of ten months, from Jan. 13, 1900, to Nov. 13, 1900, all the sewage of the Moshassuck river district was passed through this tank. The tank was then drawn down, the accumulated sludge was measured, loaded into barrows, and wheeled to an adjacent field where it was composted and used the following spring by a farmer for the fertilization of crops.

On November 20, 1900, sewage was again turned through this tank, and it was again continuously used as a septic tank until August 7, 1901, when the sewage was again drawn off, the accumulated sludge measured and taken from the tank and composted.

The following comparison of results obtained from the two experiments are of interest:

|                                                                                     | 1st.                                | 2d.                                |
|-------------------------------------------------------------------------------------|-------------------------------------|------------------------------------|
| Period of service as septic tank.....                                               | Jan. 13, 1900,<br>to Nov. 13, 1900. | Nov. 20, 1900,<br>to Aug. 7, 1901. |
| Number of months experiment lasted.....                                             | 10                                  | 8 mo. 18 d.                        |
| Number of gallons of sewage passed through tank.....                                | 27,166,000                          | 29,420,303                         |
| Number of cubic yards of sludge found in the tank at the end of the experiment..... | 147.48                              | 142.58                             |

|                                                                                                                                                                                                       | 1st.  | 2d.   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| Number of cubic yards of sludge per million gallons of sewage.....                                                                                                                                    | 5.428 | 4.846 |
| Percentage of moisture of this sludge.....                                                                                                                                                            | 81.75 | 79.11 |
| b Equivalent number of cubic yards of dry matter found in tank per million gallons of sewage.....                                                                                                     | 0.99  | 1.012 |
| Number of cubic yards of solid dry matter, per million gallons contained in the sewage which passed into the tank, as computed from the average results of analyses for "residue on evaporation"..... | 5.023 | 4.577 |
| Number of cubic yards of solid dry matter per million gallons which passed out of the septic tank in the effluent, as computed from the average results of analyses of "residue on evaporation".....  | 3.155 | 2.936 |
| a Number of cubic yards of dry solid matter per million gallons left in the tank, as shown by the difference in the last two sets of figures.....                                                     | 1.868 | 1.641 |
| Number of cubic yards of solid matter transformed or septicised per million gallons, during the passage of the sewage through the septic tank, as shown by the difference between a and b.....        | 0.878 | 0.629 |
| Per cent. of the solid matter septicised by the septic tank.....                                                                                                                                      | 47    | 38.3  |
| Number of cubic yards of sludge per million gallons which have been taken from the sludge beds during the six years this plant has been run as an intermittent filtration plant.....                  | 3.14  |       |
| Number of cubic yards of sludge per million gallons of sewage, now being taken from sewage on sludge beds.....                                                                                        | 4.87  |       |
| Per cent. of albuminoid ammonia removed by septic tank.....                                                                                                                                           | 41.3  | 42.7  |
| Per cent. of albuminoid ammonia removed by sedimentation.....                                                                                                                                         |       | 37.7  |

## CONTACT BEDS NO. 14 AND NO. 15.

As stated in the report of last year, two contract beds, each 15 feet x 15.5 feet x 4 feet deep, were constructed to be operated in connection with the septic tank.

Two rows of 2-inch tile underdrains placed five feet apart were laid on the bottom of each bed and were covered with clean gravel of assorted sizes to a depth of eight inches. On top of this gravel in bed No. 14 three feet and four inches of crushed stone of the size known as chestnut were placed. In bed No. 15 three feet and four inches of soft coal cinders which would pass through a screen of one-eighth inch mesh were deposited.

The effluent from the septic tank was turned on bed No. 14 at the rate of 509,000 gallons per acre from March 12, 1900, to Oct. 1, 1900. From Oct. 1, 1900, to Oct. 1, 1901, the rate has been 400,000 gallons per day. On the basis of 365 days in the year these rates become respectively 433,333 and 394,446 gallons per acre per day.

This septic effluent was also run on bed No. 15 at a rate of 526,000 gallons per acre until Oct. 1, 1901. From March 12, 1900, to Oct. 1, 1900, this was equivalent to 465,185 gallons per acre per day for 365 days in the year, and since that time the equivalent has been 414,814 gallons per acre per day for the full year. This reduction in rate per day, on the basis of seven days in the week, is accounted for by the periods of rest which have been given these beds. Neither bed is dosed on Sunday, and they were both rested for a period of eleven days in August, 1901. Both beds have also had several short rest periods, of one or two days, on several occasions during the year.

Careful measurements have shown that both of these beds have lost considerable of their original capacity. This has been due in part to a breaking down of the materials of which they are composed, to a settling together and to a gradual silting up.

In bed No. 14 the reduction in capacity due to settling together has been 11.1% and in bed No. 15, 21.7%. The loss of capacity due to silting up from the retention of mineral and organic matter contained in the septic effluent has been 18.83% in the case of bed No. 14, and 22.48% for bed No. 15. It is thus seen that the total loss of capacity in bed No. 14 has been about 30% and in bed No. 15, about 44%.

While the average results of seventeen analyses of the effluent from bed No. 15 show .9 parts of nitrates per 100,000 parts, it is noticeable that the nitrates gradually increased from .016 parts in May, 1900, to 2.41 parts in January, 1901; that they dropped to 0.91 parts in May, 1901, and have since gone down to .015 parts in July, 1901.

The effluent from bed No. 15 has been turned upon bed No. 16 at a rate of 730,000 gallons per acre and on bed No. 17 at a rate of 825,000 gallons per acre for six days in the week, with a much farther reduction of the ammonia and an increase in the nitrates, as is shown by the tables of analyses.

Beds No. 16 and No. 17 are two small contact filters constructed by filling two

galvanized iron cans, each twenty inches in diameter and six feet high, with filtering material; No. 16 with large pieces of coke and No. 17 with cinders similar to those in bed No. 15.

This experimental work is of great value to us as indicating what results can and can not be expected from certain methods of sewage purification.

The amount of sewage delivered to the filter fields in the Moshassuck district is annually increasing, and the amount of solid matter contained in this sewage seems to be on the increase as well. The enlargement of this plant will be necessary in a very short time, and the problem of how to make the most of a limited area is a vital one.

Our experimental work has attracted considerable interest among engineers and municipal officers, and we have had many visitors to inspect our plant. The Rhode Island State Board of Health in attending to the regular examination and analysis of samples of sewage and effluent has rendered us very considerable assistance.

*Averages of Chemical Examinations made by the State Board of Health from November 20, 1900, to October 1, 1901.*

(Parts per 100,000.)

|                                                                            | RESIDUE ON<br>EVAPORATION. |                   |        | AMMONIA. |             |              |                |           | CHLORINE. | NITROGEN<br>AS |       | OXYGEN CONSUMED. |
|----------------------------------------------------------------------------|----------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|-----------|----------------|-------|------------------|
|                                                                            | Total.                     | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Nitrates. |           | Nitrites.      |       |                  |
|                                                                            |                            |                   |        |          | Total.      | In Solution. | In Suspension. |           |           |                |       |                  |
|                                                                            |                            |                   |        |          |             |              |                |           |           |                |       |                  |
| Sewage, average of 28 analyses.....                                        | 92.46                      | 54.39             | 38.07  | 7.38     | 1.29        | 0.663        | 0.626          | 9.78      | .....     | .....          | 13.29 |                  |
| Effluent from Septic Tank, average of 26 analyses.....                     | 59.32                      | .....             | .....  | 6.75     | 0.739       | 0.558        | 0.181          | .....     | .....     | .....          | 8.28  |                  |
| Effluent from Septic Tank and Sand Filters, average of 17 analyses.....    | 43.5                       | 16.1              | 27.4   | 3.30     | 0.1383      | 0.1169       | 0.0214         | 7.61      | 1.937     | .0265          | 1.96  |                  |
| Effluent from Septic Tank and Contact Filter No. 14, average 7 analyses..  | .....                      | .....             | .....  | 3.39     | 0.3622      | 0.2920       | 0.0702         | 9.32      | 0.174     | .0030          | 3.76  |                  |
| Effluent from Septic Tank and Contact Filter No. 15, average 17 analyses.  | .....                      | .....             | .....  | 2.80     | 0.2941      | 0.2208       | 0.0673         | 7.69      | 0.898     | .0139          | 2.99  |                  |
| Effluent from Septic Tank and Contact Filters Nos. 15-16, av. 14 analyses. | .....                      | .....             | .....  | 1.55     | 0.2236      | 0.1536       | 0.0700         | 7.98      | 1.89      | .0730          | 2.29  |                  |
| Effluent from Septic Tank and Contact Filters Nos. 15-17, av. 14 analyses. | .....                      | .....             | .....  | 1.20     | 0.1798      | 0.1340       | 0.0458         | 7.28      | 2.46      | .0679          | 1.97  |                  |



*Purification Effected by Septic Tank and Several Filters.*

(Parts per 100,000.)

|                                                              | FREE AMMONIA. |           |                    | ALBUMINOID AMMONIA |           |                    | OXYGEN CONSUMED. |           |                    |
|--------------------------------------------------------------|---------------|-----------|--------------------|--------------------|-----------|--------------------|------------------|-----------|--------------------|
|                                                              | Sewage.       | Effluent. | Per cent. removed. | Sewage.            | Effluent. | Per cent. removed. | Sewage.          | Effluent. | Per cent. removed. |
| Purification effected by Septic Tank.....                    | 7.38          | 6.75      | 8.5                | 1.29               | 0.739     | 42.7               | 12.29            | 8.28      | 37.7               |
| Purification effected by Septic Tank and Sand Filters.....   | 7.38          | 3.30      | 55.3               | 1.29               | 0.1383    | 89.3               | 13.29            | 1.96      | 85.2               |
| Purification effected by Septic Tank and Filter No. 14.....  | 7.38          | 3.39      | 54.1               | 1.29               | 0.3622    | 71.9               | 13.29            | 3.76      | 71.7               |
| Purification effected by Septic Tank and Filter No. 15.....  | 7.38          | 2.80      | 62.1               | 1.29               | 0.2941    | 77.2               | 13.29            | 2.99      | 77.5               |
| Purification effected by Septic Tank and Filters Nos. 15-16. | 7.38          | 1.55      | 79.0               | 1.29               | 0.2236    | 82.7               | 13.29            | 2.29      | 82.8               |
| Purification effected by Septic Tank and Filters Nos. 15-17. | 7.38          | 1.20      | 83.7               | 1.29               | 0.1798    | 86.1               | 13.29            | 1.97      | 85.2               |

*Table showing Working of Beds from December 1, 1894, to October 1, 1901.*

| NUMBER OF BED. | Cubic yards of poor sand removed from Dec. 1, 1894, to Oct. 1, 1901. | Cubic yards of sludge removed from Dec. 1, 1894, to Oct. 1, 1901. | Average depth in inches of poor sand removed from Dec. 1, 1894, to Oct. 1, 1901. | Total number of gallons of sewage let on. | Cubic yards of poor sand removed for each 1,000,000 gallons of sewage. |
|----------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------|
| 1.....         | 108                                                                  | 101.97                                                            | 6 <sup>3</sup> / <sub>8</sub>                                                    | 6,361,117                                 | 16.98                                                                  |
| 2.....         | 123                                                                  | 97.69                                                             | 6 <sup>5</sup> / <sub>8</sub>                                                    | 6,537,031                                 | 18.82                                                                  |
| 3.....         | 102                                                                  | 90.21                                                             | 5 <sup>5</sup> / <sub>8</sub>                                                    | 5,714,198                                 | 17.85                                                                  |
| 4.....         | 96                                                                   | 93.31                                                             | 5 <sup>5</sup> / <sub>8</sub>                                                    | 5,199,762                                 | 18.46                                                                  |
| 5.....         | 178                                                                  | .....                                                             | 4 <sup>1</sup> / <sub>2</sub>                                                    | 23,607,471                                | 7.54                                                                   |
| 6.....         | 165                                                                  | 32.79                                                             | 5 <sup>5</sup> / <sub>8</sub>                                                    | 15,351,914                                | 10.75                                                                  |
| 7.....         | 120                                                                  | .....                                                             | 4 <sup>1</sup> / <sub>2</sub>                                                    | 16,784,260                                | 7.15                                                                   |
| 8.....         | 103                                                                  | .....                                                             | 4 <sup>1</sup> / <sub>2</sub>                                                    | 15,821,392                                | 6.51                                                                   |
| 9.....         | 101                                                                  | .....                                                             | 4 <sup>1</sup> / <sub>2</sub>                                                    | 17,525,796                                | 5.76                                                                   |
| 10.....        | 122                                                                  | .....                                                             | 5                                                                                | 17,939,835                                | 6.80                                                                   |
| 11.....        | 107                                                                  | .....                                                             | 4 <sup>3</sup> / <sub>8</sub>                                                    | 18,304,925                                | 5.84                                                                   |
| 12.....        | 118                                                                  | .....                                                             | 4                                                                                | 18,848,582                                | 6.26                                                                   |
| 13.....        | 120                                                                  | .....                                                             | 4 <sup>1</sup> / <sub>2</sub>                                                    | 18,608,612                                | 6.44                                                                   |
| 14.....        | .....                                                                | .....                                                             | .....                                                                            | 1,352,070                                 | .....                                                                  |
| 15.....        | .....                                                                | .....                                                             | .....                                                                            | 1,405,906                                 | .....                                                                  |
|                | 1,563                                                                | 415.97                                                            | .....                                                                            | 189,362,871                               | 8.25                                                                   |

Began using beds 1-2-5-6-7 regularly on Dec. 1, 1894.

Began using beds 8-9-10-11 regularly on Jan. 1, 1895.

Began using beds 3-4 regularly on Aug. 1, 1895.

Began using beds 12-13 regularly on Nov. 1, 1895.

Began using bed 6 as a sludge bed in August, 1898.

Began using experimental beds 14-15 on March 8, 1900.

Began using experimental cans 16-17 on Oct. 3, 1900.

Average number of cubic yards of poor sand removed per acre of filtering area, 663.

Average depth in inches of poor sand removed per acre of filtering area, 2.33.

Average number of cubic yards of sludge removed per 1,000,000 gallons of sewage from Dec. 1, 1894, to Jan. 13, 1900, and from Aug. 7, 1901, to Oct. 1, 1901, 3.14.

All beds were cleaned twice this year, once in April and once in August, when the poor sand was scraped from the surface.

Tank "A" was used as a septic tank from Jan. 13, 1900, to Aug. 7, 1901.

Began using tanks "A-B" again as settling tanks Aug. 7, 1901.

Cleaned tank "A" Nov. 13, 1900. Amount of sludge accumulated in 10 months, 147.48 cubic yards, or 5.428 cubic yards per 1,000,000 gallons of sewage treated.

Cleaned tank "A" again Aug. 12, 1901. Amount of sludge accumulated in 9 months, 142.58 cubic yards, or 4.846 cubic yards per 1,000,000 gallons of sewage treated.

Amount of poor sand removed from beds during operation of septic tank between Jan. 13, 1900, and Aug. 7, 1901, 481.48 cubic yards, or 8.48 cubic yards per 1,000,000 gallons of sewage let on beds.



The beds were cleaned in May, 1899, and were not cleaned again until May, 1900, when 222.4 cubic yards were removed. Assumed 1-3, or 74.1 cubic yards to have accumulated from Jan. 13, 1900.

All the beds have now been underdrained. In laying these underdrains more poor sand was removed from the surface than otherwise would have been taken, in order not to mix the good sand from the trenches with the poor sand on the top.

The following table shows the number of gallons of sewage received and treated at the plant during the year:

| MONTH.               | Gallons of Sewage. | Average Gallons Per Day. |
|----------------------|--------------------|--------------------------|
| October, 1900.....   | 3,641,093          | 117,467                  |
| November, 1900.....  | 3,248,938          | 108,298                  |
| December, 1900.....  | 5,261,488          | 169,725                  |
| January, 1901.....   | 4,694,393          | 151,432                  |
| February, 1901.....  | 3,747,226          | 133,830                  |
| March, 1901.....     | 3,428,837          | 110,608                  |
| April, 1901.....     | 1,103,766          | 35,605                   |
| May, 1901.....       | 2,758,187          | 88,974                   |
| June, 1901.....      | 2,506,221          | 83,541                   |
| July, 1901.....      | 3,862,666          | 124,602                  |
| August, 1901.....    | 3,552,252          | 114,589                  |
| September, 1901..... | 3,930,936          | 131,031                  |
|                      | 41,736,003         | .....                    |

Average number of gallons per day has been 114,345.

| NUMBER OF BED. | Area (acres). | Number of doses of ordinary sewage. | Average quantity of ordinary sewage applied at each dose (gallons). | Number of doses of heavy sewage. | Average quantity of heavy sewage applied at each dose (gallons). | Total quantity of sewage applied to beds during the year (gallons). | Equivalent average daily quantity applied per acre (gallons).* |
|----------------|---------------|-------------------------------------|---------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------|
| 1.....         | .126          | 46                                  | 13,154                                                              | 25                               | 10,080                                                           | 857,100                                                             | 18,634                                                         |
| 2.....         | .132          | 42                                  | 13,828                                                              | 23                               | 10,560                                                           | 823,680                                                             | 17,097                                                         |
| 3.....         | .133          | 58                                  | 13,896                                                              | 19                               | 10,640                                                           | 1,008,140                                                           | 20,767                                                         |
| 4.....         | .123          | 61                                  | 12,804                                                              | 18                               | 9,840                                                            | 958,170                                                             | 21,341                                                         |
| 5.....         | .307          | 113                                 | 30,700                                                              | .....                            | .....                                                            | 3,469,100                                                           | 30,954                                                         |
| 6.....         | .211          | 181                                 | 21,100                                                              | .....                            | .....                                                            | 3,827,360                                                           | 49,693                                                         |
| 7.....         | .180          | 192                                 | 18,000                                                              | .....                            | .....                                                            | 3,456,000                                                           | 52,595                                                         |
| 8.....         | .157          | 201                                 | 15,700                                                              | .....                            | .....                                                            | 3,155,700                                                           | 55,066                                                         |
| 9.....         | .176          | 195                                 | 17,600                                                              | .....                            | .....                                                            | 3,432,000                                                           | 53,428                                                         |
| 10.....        | .178          | 235                                 | 17,800                                                              | .....                            | .....                                                            | 4,183,000                                                           | 64,382                                                         |
| 11.....        | .183          | 233                                 | 18,300                                                              | .....                            | .....                                                            | 4,263,900                                                           | 63,830                                                         |
| 12.....        | .219          | 250                                 | 21,900                                                              | .....                            | .....                                                            | 5,475,000                                                           | 68,400                                                         |
| 13.....        | .218          | 240                                 | 21,800                                                              | .....                            | .....                                                            | 5,232,000                                                           | 65,750                                                         |
| 14.....        | .0054         | 282                                 | 2,157                                                               | .....                            | .....                                                            | 777,397                                                             | 394,446                                                        |
| 15.....        | .0054         | 282                                 | 2,900                                                               | .....                            | .....                                                            | 817,456                                                             | 414,814                                                        |

\* Figured on the basis of 365 days in the year.

## WATER WORKS.

During the year a large amount of data in connection with our water works system has been compiled. The large map covering the whole territory of collection and distribution has been completed and mounted in a roller case where it is handy for reference. Additions and changes have been made to the maps and books which show the details of pipe and gate locations. Samples of water from the Abbott Run stream have been sent to the State Board of Health for analysis.

I desire to call attention to the importance of keeping complete and accurate records of the yield of the Abbott Run stream. While we do not at the present time appear to greatly need this data, the time is not far distant when it will be very desirable to know just what has been the amount of water that this stream has supplied annually and what it can be safely counted upon to yield in the future. As intimated at the beginning of this report, the value of such records depends upon their continuous collection over a long period of time and to the care and attention given to this collection. Records gathered thoughtlessly and without careful and painstaking study are likely to be faulty, and, if so, they are worse than no records at all. Their use occasions errors in the solution of the problems to which they may be applied, which are all the more serious in that they appear to be founded upon an accurate and indisputable record of facts.

## RECORDS OF RAINFALL.

Among the additions made to the working apparatus of this department has been the installation of an automatic rain gauge on the roof of the building in which the office is located. This gauge was originally set up at the Diamond Hill reservoir, but it was decided that more accurate and valuable records would be obtained if some alterations should be made in the gauge itself and if it should be located as at present. The recording chart was accordingly changed from a record of seven days to one of twenty-four hours, thereby giving better records of heavy rates of rainfall.

A record of the maximum rate of rainfall for any storm, together with the duration of that maximum rate, is of greater value in engineering work than is a record of the total precipitation. The total precipitation of a storm of three or four hours' duration may not have exceeded one inch, but there may have been a period of ten, fifteen or twenty minutes when the rate of rainfall may have been as great as two or three inches per hour. It is these maximum rates of rainfall, their intensities, duration and frequency which become important factors in the calculation of the sizes of sewers.

With our automatic gauge we have also located a standard pail gauge, as a check on the total precipitation. In other parts of the city and on our water

works system we have pail gauges, and the following table shows the record of these different gauges for the same storms. It will be noticed that columns are set apart for the record of maximum rates and their duration, and the suggestion is offered, that if similar items were recorded in the annual reports of other Boards of Public Works valuable data would be collected and much assistance given to municipal officers who are intrusted with the solution of these problems.

## TOTAL AMOUNT OF PRECIPITATION FOR EACH MONTH.

| MONTH.                            | Masonic Building,<br>Automatic gauge. | Filter Fields,<br>Standard gauge. | Pumping Station<br>No. 3, Automatic<br>gauge. | Diamond Hill,<br>Standard gauge. |
|-----------------------------------|---------------------------------------|-----------------------------------|-----------------------------------------------|----------------------------------|
| 1900.                             |                                       |                                   |                                               |                                  |
| October.....                      |                                       | 3.18                              | 3.24                                          | 3.40                             |
| November.....                     | 3.92                                  | 4.46                              | 4.40                                          | 4.73                             |
| December.....                     | 2.36                                  | 2.74                              | 2.60                                          | 2.81                             |
| 1901.                             |                                       |                                   |                                               |                                  |
| January.....                      | 1.53                                  | 1.96                              | 2.10                                          | 1.75                             |
| February.....                     | 0.31                                  | 0.83                              | 1.21                                          | 0.79                             |
| March.....                        | 7.27                                  | 7.81                              | 7.67                                          | 8.84                             |
| April.....                        | 6.54                                  | 7.45                              | 7.28                                          | 8.97                             |
| May.....                          | 6.24                                  | 6.60                              | 6.87                                          | 6.82                             |
| June.....                         | 0.98                                  | 0.97                              | 0.86                                          | 1.22                             |
| July.....                         | 3.65                                  | 3.46                              | 2.83                                          | 5.83                             |
| August.....                       | 1.60                                  | 1.72                              | 2.40                                          | 3.75                             |
| September.....                    | 3.65                                  | 3.86                              | 4.04                                          | 4.35                             |
| Total precipitation for year..... |                                       | 45.04                             | 45.50                                         | 53.26                            |

## ELEVATIONS ABOVE MEAN HIGH TIDE, PAWTUCKET RIVER.

|                                     |          |
|-------------------------------------|----------|
| Gauge at Masonic Building.....      | 140 feet |
| Gauge at Filter Fields.....         | 40 feet  |
| Gauge at Pumping Station No. 3..... | 100 feet |
| Gauge at Diamond Hill.....          | 220 feet |

GEORGE A. CARPENTER, *City Engineer.*

5. This city has no legal board of health other than the board of aldermen.
6. Byron U. Richards, M. D., health officer.
8. Undertakers make prompt returns of deaths.
9. Clergymen make returns of marriages promptly.

SAMUEL H. ROBERTS, *City Clerk.*

## PROVIDENCE.

## EXTRACT FROM THE REPORT OF THE CITY ENGINEER.

The population of the city is estimated at 181,000, and the population supplied in the suburbs is estimated at 12,700. Total population supplied, 193,700.

The number of meters in use in the city is 17,182, and the number of meters in use in the suburbs is 1,362. Total number of meters in use, 18,544.

The number of service pipes in use in the city is 20,489, and the number of service pipes in use in the suburbs is 1,697. Total number of service pipes in use, 22,186.

The average daily use of water per service for the year 1901 has been 484 gallons.

The average daily use of water per capita for the year 1901 has been 55 gallons.

The water receipts for 1901 were \$578,869.07.

The net cost of maintenance for 1901 was \$108,563.84.

The net cost of the water works construction from November 8, 1869, to January 1, 1902, is \$6,470,093.35, upon which there has been a revenue for water sold of \$10,012,033.04.

The monthly and annual and the average daily and monthly consumption of water in gallons, including waste and leakage, during the year is shown by the following table:

| MONTHS.        | Consumption<br>per month. | Average<br>monthly<br>consump-<br>tion. | Average<br>daily<br>consumption<br>per month. | Average<br>daily<br>consumption<br>for the year. |
|----------------|---------------------------|-----------------------------------------|-----------------------------------------------|--------------------------------------------------|
| January.....   | 312,692,170               | .....                                   | 10,086,844                                    | .....                                            |
| February.....  | 294,549,201               | .....                                   | 10,519,614                                    | .....                                            |
| March.....     | 316,230,476               | .....                                   | 10,200,983                                    | .....                                            |
| April.....     | 267,707,139               | .....                                   | 8,923,571                                     | .....                                            |
| May.....       | 311,538,422               | .....                                   | 10,049,627                                    | .....                                            |
| June.....      | 344,903,129               | .....                                   | 11,496,771                                    | .....                                            |
| July.....      | 372,655,454               | .....                                   | 12,021,144                                    | .....                                            |
| August.....    | 362,449,005               | .....                                   | 11,691,903                                    | .....                                            |
| September..... | 334,632,328               | .....                                   | 11,154,411                                    | .....                                            |
| October.....   | 338,294,582               | .....                                   | 10,912,728                                    | .....                                            |
| November.....  | 320,858,689               | .....                                   | 10,695,290                                    | .....                                            |
| December.....  | 341,654,947               | .....                                   | 11,021,127                                    | .....                                            |
| Total.....     | 3,918,165,542             | .....                                   | .....                                         | .....                                            |
| Averages.....  | .....                     | 326,513,795                             | .....                                         | 10,734,700                                       |

The maximum consumption of water for any one day during the year 1901 was 15,779,000 gallons.

The amount of water consumed shown in the above table includes the supplying of about thirty-seven and six-tenths miles of distribution pipes, located in adjoining towns, as well as supplying the greater part of the State Institutions at Cranston. Dexter Asylum has continued to use a considerable quantity of water, as usual, which, together with the use of water in the cold months through small blow-offs at bridge crossings and elsewhere, to prevent freezing, helps to keep up the consumption.

The following table shows the average daily consumption of water in gallons for each year during the last twenty-five years:

*Average Daily Total Consumption of Water, in gallons, for each Year, from January, 1877, to December, 1901, inclusive.*

| Years.    | For the year. | Year.     | For the year. |
|-----------|---------------|-----------|---------------|
| 1877..... | 2,492,032     | 1890..... | 6,743,047     |
| 1878..... | 2,702,404     | 1891..... | 7,272,070     |
| 1879..... | 3,110,279     | 1892..... | 8,058,414     |
| 1880..... | 3,547,264     | 1893..... | 9,128,563     |
| 1881..... | 3,716,937     | 1894..... | 9,904,434     |
| 1882..... | 3,665,427     | 1895..... | 8,905,085     |
| 1883..... | 4,143,798     | 1896..... | 9,106,623     |
| 1884..... | 4,083,373     | 1897..... | 8,635,067     |
| 1885..... | 4,730,556     | 1898..... | 9,148,993     |
| 1886..... | 4,822,125     | 1899..... | 9,562,058     |
| 1887..... | 4,939,982     | 1900..... | 10,131,489    |
| 1888..... | 5,518,691     | 1901..... | 10,734,700    |
| 1889..... | 5,786,961     |           |               |

Examinations for electrolysis have been made and the conditions found to be much improved. The section on South Water street, where formerly there was a strong positive district, has changed so that now the current is comparatively light, and in some places nearly neutral. Several services and some meter bolts have had to be replaced on meters located in wet places, and some six-inch pipe in Elm street, which was examined last year and found to be much softened, has been removed on account of other work. Also in Butts street, where it was necessary to cut out for hydrants, the pipe was found to be considerably softened.

#### WATER WORKS STATISTICS FOR THE YEAR 1901.

*In Accordance with Form Adopted by the New England Water Works Association.  
Providence Water Works, Providence County, R. I.*

|                                               |         |
|-----------------------------------------------|---------|
| Pouplation of Providence.....                 | 181,000 |
| Estimated population supplied in suburbs..... | 12,700  |

Date of construction..... 1870 to 1876.  
 By whom owned..... City of Providence  
 Source of supply.....Pawtuxet river, in the town of Cranston.  
 Mode of supply:

The water is pumped from the Pawtuxet river into a storage reservoir located upon a hill about one mile distant. From this reservoir it flows into the city by gravitation, directly supplying a second storage reservoir within the city limits, and also that portion of the city which is of sufficiently low elevation to be served by gravitation. To supply that part of the city of too high an elevation to be served by these reservoirs, a third reservoir is located in the town of North Providence. The water is pumped by supplementary pumping machinery from the second reservoir above mentioned or from the mains, into the high service reservoir. This supplementary pumping machinery can also supply the high service district, if the reservoir should be out of service, by pumping directly into the mains.

In addition to the regular distribution pipes there is an independent high pressure fire system (deriving its supply from the high service), for protecting an area of about one-half of one square mile in the centre of the business portion of the city.

#### PUMPING.

##### 1. Builders of pumping machinery:

a. Worthington Duplex engine, built by Henry R. Worthington. (Out of service.)

b. Cornish engine, built by Paulding, Kemble & Co.

c. Corliss Vertical engine, built by George H. Corliss.

d. Worthington Triple Expansion engine, built by Henry R. Worthington.

e. Nagle High Service engine, built by the Providence Steam Engine Co.

f. Holly High Service engine, built by the Holly Manufacturing Co.

|             |          |          |          |
|-------------|----------|----------|----------|
| Worthington | Corliss, | Holly .  | Nagles   |
| Triple      |          | High     | High     |
| Expansion.  |          | Service. | Service. |

##### 2. Description of coal used,

|                                                   |                                                |                                              |                          |
|---------------------------------------------------|------------------------------------------------|----------------------------------------------|--------------------------|
| Bituminous,                                       | Bituminous.                                    | Anthracite egg.                              | Anthracite egg.          |
| b. New River and<br>George's Creek<br>Cumberland. | New River and<br>George's Creek<br>Cumberland. | Reading hard and<br>Reading free<br>burning. | Reading free<br>burning. |
| c. Price, per gross ton delivered,                |                                                |                                              |                          |
| \$4.20                                            | \$4.12                                         | \$5.04                                       | \$5.04                   |



|                                                                                                                                                      |               |             |             |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|-------------|------------|
| d. Percentage of ash,                                                                                                                                |               |             |             |            |
|                                                                                                                                                      | 9.9           | 10.4        | 16.4        | 15.4       |
| e. Wood, price per cord,                                                                                                                             |               |             |             |            |
|                                                                                                                                                      | \$4.50        | \$4.50      | \$4.00      | \$4.00     |
| 3. Coal consumed for the year, in pounds,                                                                                                            |               |             |             |            |
|                                                                                                                                                      | 5,690,300     | *280,500    | †775,913    | ‡121,159   |
| 4. [Pounds of wood consumed] ÷ 3 = equivalent amount of coal in pounds,                                                                              |               |             |             |            |
|                                                                                                                                                      | 833           | 4,750       | \$1,376     | 206        |
| 5. Total equivalent coal consumed for the year, (3) + (4) in pounds,                                                                                 |               |             |             |            |
|                                                                                                                                                      | 5,691,133     | 285,250     | 777,289     | 121,365    |
| 6. Total pumpage for the year in gallons, with allowance for slip,                                                                                   |               |             |             |            |
|                                                                                                                                                      | 3,891,304,283 | 165,074,474 | 476,290,901 | 67,525,560 |
| 7. Average static head against which pumps work, in feet,                                                                                            |               |             |             |            |
|                                                                                                                                                      | 171.49        | 171.53      | 112.04      | 111.12     |
| 8. Average dynamic head against which pumps work, in feet,                                                                                           |               |             |             |            |
|                                                                                                                                                      | 176.92        | 177.03      | 126.61      | 112.61     |
| 9. Number of gallons pumped per pound of equivalent coal (5),                                                                                        |               |             |             |            |
|                                                                                                                                                      | 684           | 579         | 613         | 556        |
| 10. Duty = $\frac{\text{Gallons pumped (6)} \times 8.34 \text{ (lbs.)} \times 100 \times \text{dynamic head (8)}}{\text{Total fuel consumed (5)}}$ , |               |             |             |            |
|                                                                                                                                                      | 100,888,000   | 85,441,200  | 64,702,900  | 52,253,800 |

COST OF PUMPING, FIGURED ON PUMPING STATION EXPENSES, VIZ.: \$19,045.28 FOR THE LOW SERVICE, AND \$5,737.28 FOR THE HIGH SERVICE.

|                                                                                 |         |
|---------------------------------------------------------------------------------|---------|
| 11. a. Per million gallons pumped into low service reservoir, the cost was..... | \$4.70  |
| b. Into high service reservoir (pumped twice, \$4.70 + \$10.55).....            | \$15.25 |

\*Not including 50,950 pounds when engine was not in service.

† " " 3,140 " " " " "

‡ " " 1,050 " " " " "

§Not including 154 pounds of wood when engine was not in service.

|     |                                                                                    |              |
|-----|------------------------------------------------------------------------------------|--------------|
| 12. | Per million gallons raised one foot high (dynamic), low service, the cost was..... | \$0.0265     |
|     | High service (pumped twice, \$0.0265 + \$0.0845), the cost was.....                | \$0.1110     |
| W.  | Net cost of works to date.....                                                     | 6,470,093.35 |
| X.  | Bonded debt at date.....                                                           | 6,009,000.00 |
| Y.  | Value of sinking fund at date.....                                                 | 984,261.28   |
| Z.  | Average rate of interest.....                                                      | \$0.03762    |

## CONSUMPTION.

|     |                                                     |                                                                      |
|-----|-----------------------------------------------------|----------------------------------------------------------------------|
| 1.  | Estimated total population of district at date..... | 193,700                                                              |
| 2.  | { Estimated population on lines of pipe, }          | Number not taking city water so small that total population is used. |
| 3.  | { Estimated population supplied, }                  |                                                                      |
| 4.  | Total number of gallons consumed for year.....      | 3,918,165,542                                                        |
| 5.  | { Passed through meters, }                          | Estimated about 60 per cent.                                         |
| 6.  | { Percentage of consumption metered, }              |                                                                      |
| 7.  | Average daily consumption in gallons.....           | 10,734,700                                                           |
| 8.  | Gallons per day to each inhabitant.....             | 55                                                                   |
| 10. | Gallons per day to each tap (distribution 22).....  | 484                                                                  |

## DISTRIBUTION.—MAINS.\*

|     |                                                                                                   |                      |
|-----|---------------------------------------------------------------------------------------------------|----------------------|
| 1.  | Kind of pipes used.....                                                                           | Cast iron.           |
| 2.  | Sizes.....                                                                                        | From 6 to 36 inches. |
| 3.  | Extended.....                                                                                     | 35,323.08 feet.      |
| 4.  | Discontinued.....                                                                                 | 1,113.79 feet.       |
| 5.  | Total now in use†.....                                                                            | 331.0347 miles.      |
| 7.  | Number of leaks for year, 21; 19 of which were joints, 2 due to settlement, repairs costing ..... | \$124.13             |
| 8.  | Small distribution pipes, less than four inches, total length.                                    | None.                |
| 9.  | Fire hydrants added‡.....                                                                         | 34                   |
| 10. | Number of hydrants now in use, ‡ (a) fire.....                                                    | 1,920                |
|     | (b) watering cart hydrants or street sprinklers.....                                              | 63                   |

\* Not including high pressure fire service.

† Includes 10,084 feet of 36-inch pipe, 561 feet of 30-inch pipe, and 695 feet of 24-inch pipe, which are force mains, and 19.66 feet of 30-inch pipe, and 19,478.46 feet of 24-inch pipe, which are used both as a force and delivery main.

‡ Not including high pressure fire service, or private hydrants.



|                                                                            |               |
|----------------------------------------------------------------------------|---------------|
| 11. Stop gates added.....                                                  | 80            |
| 12. Number now in use.....                                                 | 3,478         |
| 13. Stop gates less than four inches.....                                  | None.         |
| 14. Number of blow-off gates.....                                          | 32            |
| 15. Range of pressure on mains at centre of city for day and<br>night..... | 64 to 73 lbs. |

## HIGH PRESSURE FIRE SERVICE.

|                                                                                     |                      |
|-------------------------------------------------------------------------------------|----------------------|
| Kind of pipes used.....                                                             | Cast iron.           |
| Size.....                                                                           | 12, 16, and 24-inch. |
| Total now in use*.....                                                              | 5.5698 miles.        |
| Hydrants added.....                                                                 | None.                |
| Number now in use.....                                                              | 92                   |
| Stop gates now in use.....                                                          | 31                   |
| Number of blow-off gates.....                                                       | 4                    |
| Pressure on mains, at center of business portion of city, for day and<br>night..... | 114 lbs.             |

## SERVICES.

|                                                                                                        |                                                                  |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 16. Kind of pipe.....                                                                                  | Lead from $\frac{1}{2}$ to $1\frac{1}{4}$ inches, and cast iron. |
| 17. Sizes.....                                                                                         | From $\frac{1}{2}$ to 10 inches.                                 |
| 21. Services added.....                                                                                | 701                                                              |
| 22. Number now in use.....                                                                             | 22,186                                                           |
| 25. Meters added.....                                                                                  | 731                                                              |
| 26. Number now in use.....                                                                             | 18,544                                                           |
| 27. Percentage of services metered.....                                                                | 84                                                               |
| 29. Elevator supplies added.....                                                                       | 4                                                                |
| 30. Number now in use, 145 of 4 and 6-inch, and 20 smaller sup-<br>plies connected to house elevators. |                                                                  |

This department has been in charge of Irving S. Wood, Assistant Engineer.

The usual flow of the Woonasquatucket river, from Olneyville to the Atwells avenue bridge, is clear and clean enough to be free from any charge of being a nuisance; but in the area bounded by Atwells avenue, Eagle street and the river a serious case of pollution exists which can be removed only by the construction of a sewer in Kinsley avenue from Eagle street to Harris avenue, and thence across the river to the sewer in Promenade street.

The condition of the flow of the Moshassuck river is very foul, and although the construction of sewers along its course in the city limits will benefit it to some

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\* No connections of any description except for city fire hydrants.

extent, yet they will not avail much so long as the manufacturing establishments in Pawtucket and Lincoln are permitted to use its course as a common sewer. A short investigation will convince any one that the main causes for the contamination of our rivers and harbor at present are situated outside the city limits, and some measure should be adopted to abate them if we wish to reap the full benefit of the money already spent by the city towards purifying the rivers within its territory.

The construction of the precipitation tanks and buildings and the installing of the necessary machinery and fixtures, excepting plates for the presses, was completed early in the year, and on the 17th day of April sewage was turned into the tanks and the work of precipitation begun.

The work at first was largely experimental, as sewage sludge has peculiarities of its own for each different community. Plates of two thicknesses had been ordered sufficient for four presses, and the works were started up to find from trial which thickness of plate would be best adapted to our conditions, and also to test the machinery.

It was found that the plates referred to produced a sludge cake too thick to press properly, and it was necessary to order a new set of plates of a different thickness for the remainder of the presses. Delay in furnishing these made it necessary to suspend operation for a time, but by September, sufficient plates having arrived to fill several presses, the work was again commenced and has been continued to date. The whole number of plates have now been delivered, and it will soon be possible to work the plant to its full capacity. So far the result as to effluent and sludge has been very satisfactory. The plant is in charge of Mr. Julius W. Bugbee, formerly of the Worcester Precipitation Works, as superintendent and chemist.

A view of the press room is shown in the accompanying plate.

#### SCITUATE.

No reply from the town clerk.

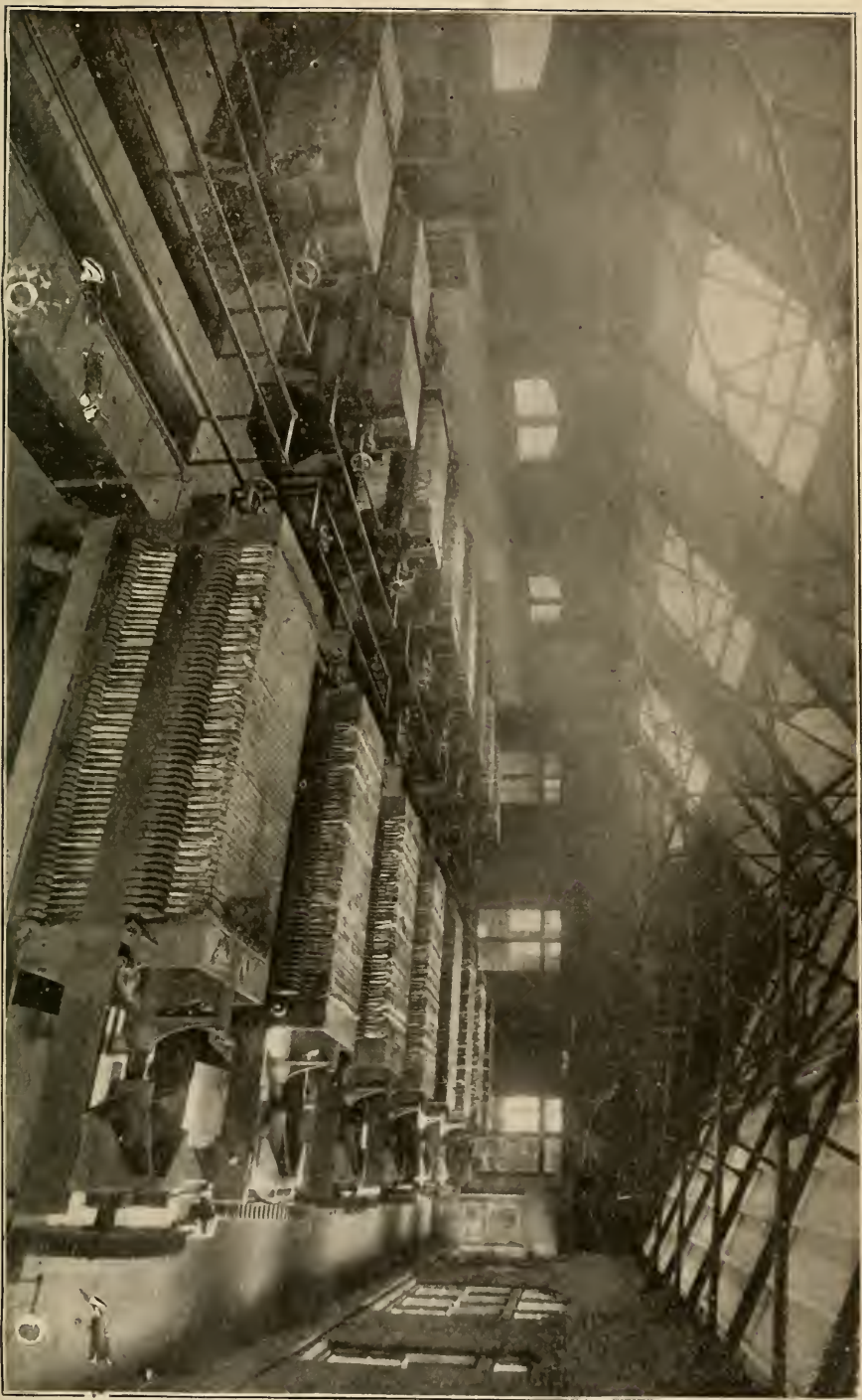
#### SMITHFIELD.

6. Jenekes Smith, health officer.

7. Gratuitous vaccination was provided during the year and about twenty-five per cent. of the population, principally school children, availed itself of the same.

9. Clergymen make returns of marriages promptly.

OSCAR A. TONEY, *Town Clerk.*



Press Room.









Precipitation Plant, from the South East.

## WOONSOCKET.

2. About 29,000 of the population (28,204) are supplied with water from the City Water Works.

The following extracts are from the report of the water department:

## SUMMARY OF STATISTICS FOR THE YEAR ENDING NOVEMBER 30, 1901.

*In Form Recommended by New England Water Works Association. Woonsocket Water Works.*

City of Woonsocket, County of Providence, State of Rhode Island:

Population by census of 1900, 28,204 (not including Manville).

Date of construction..... 1884.

By whom owned..... City of Woonsocket.

Source of supply..... Crook Fall Brook.

Mode of supply..... Pump to tanks.

Builders of tanks:

No. 1. Cunningham Iron Works, 30 ft. high, 50 ft. diameter.. 442,780 gallons.

No. 2. Porter Manufacturing Co., 35 ft. high, 50 feet diameter. 515,310 gallons.

No. 3. E. Hodge & Co., 30 ft. high, 76 ft. diameter..... 1,020,705 gallons.

Total capacity..... 1,978,795 gallons.

## PUMPING.

1. Builders of pumping machinery, H. R. Worthington, Deane Steam Pump Co.

2. Description of fuel used: (a) kind, bituminous; (b) brand of coal, Pocahontas, George Creek; (c) average price of coal per ton, delivered, \$5.14 (2,200); (d) percentage of ash, 6.2; (e) wood, price per cord, \$3.00.

3. Coal consumed for the year, 1,370,750 lbs.

4. [Pounds of wood consumed]  $\div$  3 = equivalent amount of coal, 320 lbs.

4a. Amount of other fuel used, none.

5. Total equivalent coal consumed for the year = (3) + (4) 1,371,070 lbs.

6. Total pumpage for the year, 341,709,743 gallons with allowance for slip.

7. Average static head against which pumps work, 237,937 feet.

8. Average dynamic head against which pumps work, 239,461 feet.

9. Number of gallons pumped per pound of equivalent coal (5), 249.

10. Duty =  $\frac{\text{Gallons pumped (6)} \times 8.34 \text{ (lbs.)} \times 100 \times \text{dynamic head (8)}}{\text{Total fuel consumed (5)}} = 49,773,545.$

Cost of pumping, figured on pumping station expenses, viz.: \$5,226.56.

11. Per million gallons pumped..... \$15.30

|     |                                                                   |         |
|-----|-------------------------------------------------------------------|---------|
| 12. | Per million gallons raised one foot (dynamic).....                | .063    |
|     | Cost of pumping, figured on total maintenance, viz.: \$29,239.03. |         |
| 13. | Per million gallons pumped.....                                   | \$85.57 |
| 14. | Per million gallons raised one foot (dynamic).....                | .36     |

## CONSUMPTION.

|     |                                                                             |                                      |
|-----|-----------------------------------------------------------------------------|--------------------------------------|
| 1.  | Estimated total population at date, 33,500 (including Man-ville extension). |                                      |
| 2.  | Estimated population on lines of pipe.....                                  | 33,000                               |
| 3.  | Estimated population supplied.....                                          | 33,000                               |
| 4.  | Total consumption for the year.....                                         | 341,715,564 gallons.                 |
| 5.  | Passed through meters.....                                                  | 259,063,816 gallons, or 76 per cent. |
| 6.  | Percentage of consumption metered.....                                      |                                      |
| 7.  | Average daily consumption.....                                              | 936,207 gallons.                     |
| 8.  | Gallons per day to each inhabitant.....                                     | 27.9                                 |
| 9.  | Gallons per day to each consumer.....                                       | 28.3                                 |
| 10. | Gallons per day to each tap.....                                            | 405                                  |

## DISTRIBUTION.—MAINS.

|     |                                                                    |                             |
|-----|--------------------------------------------------------------------|-----------------------------|
| 1.  | Kind of pipe.....                                                  | Cast iron.                  |
| 2.  | Sizes.....                                                         | From 4-inch to 20-inch.     |
| 3.  | Extended.....                                                      | 4,661 feet during the year. |
| 4.  | Discontinued.....                                                  | No feet during the year.    |
| 5.  | Total now in use.....                                              | 46.685 miles.               |
| 6.  | Cost of repairs per mile.....                                      | \$5.71                      |
| 7.  | Number of leaks per mile.....                                      | .45                         |
| 8.  | Length of pipes less than 4 inches diameter.....                   | No miles.                   |
| 9.  | Number of hydrants added during the year (public and private)..... | 11                          |
| 10. | Number of hydrants (public and private) now in use.....            | 559                         |
| 11. | Number of stop gates added during year.....                        | 10                          |
| 12. | Number of stop gates now in use.....                               | 502                         |
| 13. | Number of stop gates smaller than 4-inch.....                      | None.                       |
| 14. | Number of blow-off gates.....                                      | 15                          |
| 15. | Range of pressure on mains at center of town.....                  | 50 lbs. to 120 lbs.         |

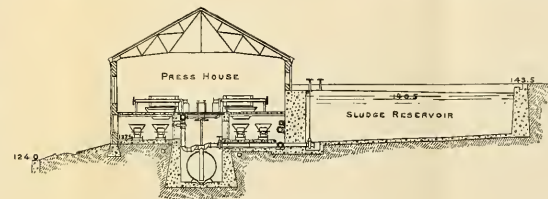
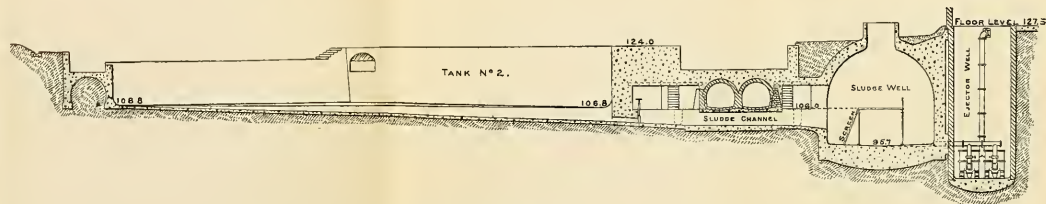
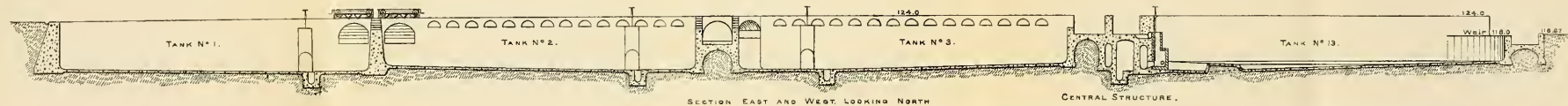
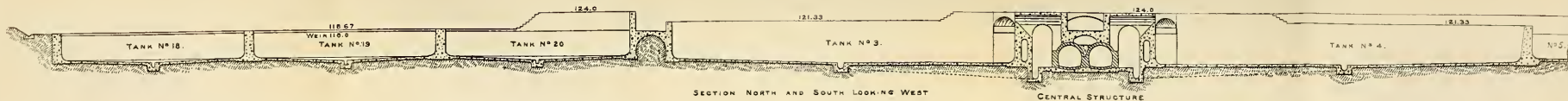
## SERVICES.

|     |                   |                                |
|-----|-------------------|--------------------------------|
| 16. | Kind of pipe..... | Lead and cast iron.            |
| 17. | Sizes.....        | $\frac{3}{4}$ -inch to 6-inch. |
| 18. | Extended.....     | 1,769.25 feet.                 |

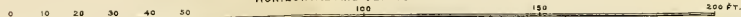




THESE DRAWINGS ARE THE PROPERTY OF THE  
 ARCHITECT AND ARE NOT TO BE REPRODUCED  
 WITHOUT HIS WRITTEN PERMISSION



BASE OF LEVELS 110 FT. BELOW MEAN HIGH WATER.  
HORIZONTAL AND VERTICAL SCALE.



Otis F. Clapp.  
CITY ENGINEER

feet.

miles.

114

2,311

feet.

3.06

104

,003

36.6

96

one.

12

ons.

s.

029928

GENERAL PLAN  
OF THE  
PRECIPITATION PLANT  
IMPROVED SEWERAGE SYSTEM  
NEAR FIELDS POINT  
PROVIDENCE R.I.  
1901.

Chas. H. Clapp  
CITY ENGINEER

BASE OF LEVELS 110 FT BELOW MEAN HIGH WATER  
SCALE

|                                                                   |              |
|-------------------------------------------------------------------|--------------|
| 19. Discontinued.....                                             | No feet.     |
| 20. Total now in use.....                                         | 6.666 miles. |
| 21. Number of service taps added during the year.....             | 114          |
| 22. Number now in use.....                                        | 2,311        |
| 23. Average length of service.....                                | 15.66 feet.  |
| 24. Average cost of service for the year.....                     | \$13.06      |
| 25. Number of meters added.....                                   | 104          |
| 26. Number now in use.....                                        | 2,003        |
| 27. Percentage of services metered.....                           | 86.6         |
| 28. Percentage of receipts from metered water ( $B \div C$ )..... | 96           |
| 29. Number of motors and elevators added.....                     | None.        |
| 30. Number now in use.....                                        | 12           |

## TOTAL YEARLY CONSUMPTION FROM 1885 TO 1901.

|                      |                     |
|----------------------|---------------------|
| 1885.....            | 53,884,669 gallons. |
| 1886.....            | 88,924,946 "        |
| 1887.....            | 98,507,585 "        |
| 1888 (9 months)..... | 74,158,335 "        |
| 1889.....            | 101,152,979 "       |
| 1890.....            | 120,325,893 "       |
| 1891.....            | 131,770,368 "       |
| 1892.....            | 153,527,852 "       |
| 1893.....            | 204,208,187 "       |
| 1894.....            | 205,086,916 "       |
| 1895.....            | 225,293,830 "       |
| 1896.....            | 259,429,005 "       |
| 1897.....            | 271,236,620 "       |
| 1898.....            | 269,565,878 "       |
| 1899.....            | 292,241,979 "       |
| 1900.....            | 341,074,454 "       |
| 1901.....            | 341,715,564 "       |

## RAINFALL AT PUMPING STATION.

|               |              |
|---------------|--------------|
| December..... | 2.81 inches. |
| January.....  | 2.30 "       |
| February..... | 1.33 "       |
| March.....    | 8.32 "       |
| April.....    | 9.51 "       |
| May.....      | 6.92 "       |
| June.....     | 1.11 "       |

|                |             |
|----------------|-------------|
| July.....      | 4.43 inches |
| August.....    | 3.32 "      |
| September..... | 3.98 "      |
| October.....   | 3.09 "      |
| November.....  | 2.80 "      |
| Total.....     | 49.92       |

5. This city has no legal board of health other than the board of aldermen.
6. William C. Monroe, M. D., health officer.
7. Gratuitous vaccination was provided during the year, and 6,000 persons .  
availed themselves of the same.
8. Undertakers make prompt returns of deaths.
9. Clergymen make returns of marriages promptly.

WILLIAM C. MASON, *City Clerk.*

## WASHINGTON COUNTY.

### CHARLESTOWN.

1. Nothing for the promotion of the public health has been done during the  
year.
2. This town has no public water service.
3. This town has no sewage system.
4. Contagious disease ordinance, see report of 1900, p. 56.
5. This town has no legal board of health other than the town council.
6. Milton Duckworth, M. D., health officer.
7. Gratuitous vaccination was not provided during the year.
8. Undertakers have made prompt returns of deaths.
9. Clergymen have made returns of marriages promptly.

GEORGE C. CROSS, *Town Clerk.*

### EXETER.

1. Nothing for the promotion of the public health has been done during the  
year.
5. This town has no legal board of health other than the town council.
6. This town has no health officer.



7. Gratuitous vaccination was not provided during the year.
9. Clergymen make returns of marriages promptly.

JOHN H. EDWARDS, *Town Clerk.*

#### HOPKINTON.

1. Nothing for the promotion of the public health has been done during the year.
2. This town has no public water service.
3. This town has no sewage system.
4. No new ordinances have been enacted during the year. (Contagious disease ordinance, see report of 1894, p. 59.)
5. This town has no legal board of health other than the town council.
6. Henry H. Crandall, health officer.
7. Gratuitous vaccination was not provided during the year.
8. Undertakers make prompt returns of deaths.
9. Clergymen make returns of marriages promptly.

EDWIN R. ALLEN, *Town Clerk.*

#### NARRAGANSETT.

1. Nothing for the promotion of the public health has been done during the year.
2. The public water service of this district was extended during the year by 400 feet. The proportion of the population supplied, however, has not materially increased.
3. There has been no extension of the sewage system of this district since the last report, but the council has under consideration a modification of the present system of sewage disposal.

#### AN ORDINANCE RELATIVE TO SEWERS.

*Be it ordained by the District Council of the District of Narragansett:*

SECTION 1. No person shall connect any drain or pipe with any public sewer or any appurtenance of a public sewer or maintain such connection without the permission of the district engineer.

SEC. 2. No person shall injure any sewer or fixture, or appurtenance of a sewer, or deposit any garbage, offal, or refuse material of any kind in any catch

basin, manhole, or other fixture of a public sewer, or remove any manhole cover without permission of the district engineer.

SEC. 3. Every person who shall violate any provision of this ordinance shall be guilty of a misdemeanor and shall pay a fine, to the treasury of the District of Narragansett, of not less than five nor more than twenty dollars.

The following regulations relative to the manner of connecting with and using the public sewers and the management and protection thereof are hereby approved and adopted by the district council of the District of Narragansett:

1. Applications for permits to connect with any public sewer must be made to the district engineer in a form prescribed and furnished by him at his office.

2. Applications must be signed by the owner of the premises to be connected, or his attorney, must state the location of the premises, the name of some drain layer to be employed, and must be made prior to the commencement of any work thereon.

3. Such application must include an agreement on the part of the owner to abide by all rules and regulations established by the district council in relation to public sewers and to waive any claim for damages in case of revocation as hereinafter provided.

4. Permits to connect with a public sewer may be revoked and annulled by the district council for such cause, at any time, as it may deem sufficient, and all parties in interest shall be held to have waived the right to claim damages on account of such revocation.

5. No more than one building shall be connected with a public sewer through one pipe without a special permit from the district engineer.

6. All drains laid in any public street or way shall be iron pipe or salt glazed vitrified clay pipe.

7. All drains connecting with a public sewer shall be at least 4 inches in diameter.

8. All drains shall be laid as nearly as possible in a straight line and grade, and any decided change in grade or direction must be made with curves or bends.

9. All joints on vitrified pipe shall be made tight with good cement, and on iron pipe with gasket and lead.

10. The inside of every drain shall be left perfectly clear and smooth, and a proper scraper shall be drawn through each pipe as laid.

11. A drain shall be connected only with the slant or branch mentioned in the permit for that drain, and the connection must be made in the presence of the engineer or his inspector.

12. The location, material, and workmanship of all drains must be satisfactory to the district engineer.



13. No drain shall be laid in or under any street or public way, excepting on such grade and line and at such times as may be directed by the district engineer, and as little as possible of the trench shall be dug until the branch or slant is found.

14. In opening trenches on any street or public way, paving and ballast must be removed with care, the sides of the trench sheeted or braced when directed by the engineer or inspector, water or other pipes protected from injury, the trenches closed and lighted at night, and every precaution taken to prevent injury to the public during the progress of the work.

When necessary to disturb a drain in actual use, it must not be obstructed without the direction of the engineer.

15. The backfilling shall be thoroughly puddled or rammed, and the paving or ballast replaced in the best condition, and to the satisfaction of the engineer or inspector, within forty-eight hours after the backfilling of the trench.

16. Notice must be left at the office of the district engineer at least forty-eight hours before work is begun on a drain, and no material shall be used or work covered until inspected and approved by the district engineer or his authorized inspector.

17. Such information as the district has with regard to the position of junctions or branches will be furnished to drain layers, but at their risk as to the accuracy of the same.

18. Any settlement over the drain in any street or public way within one year after such drain is laid shall be repaired at the expense of the owner of the property from which said drain is laid, who shall be held liable for any accident or damage which may occur in consequence of the laying of said drain during the time the trench is open and for said period of one year after said drain is laid.

19. It shall be the duty of the district engineer to inspect the work done and materials used in laying sewer connections in the public highway and to keep a record of such work. He may authorize an assistant to make such inspection.

All applications for permits to connect with sewers or appurtenances must be accompanied with a fee of \$1.00 to pay the expense of keeping a record of such connection, and the person applying for such permit must pay the district engineer for inspection at the rate of 50c. per hour.

In district council of the District of Narragansett, read and passed this 20th day of April, A. D. 1896.

A true copy, Attest:

WILLIAM H. CASWELL, *District Clerk.*

5. This district has no legal board of health other than the district council.

6. Solomon H. Hale, health officer.

7. Gratuitous vaccination was not provided during the year:
8. Undertakers make fairly prompt returns of deaths.
9. Some of the clergymen make returns of marriages promptly, but not all.

WILLIAM H. CASWELL, *District Clerk.*

#### NORTH KINGSTOWN.

1. Nothing for the promotion of the public health has been done during the year.
2. This town has no public water service.
3. This town has no sewage system.
4. No new ordinances have been enacted during the year. (Nuisance and contagious disease ordinances, see report of 1896, p. 60.)
5. This town has no legal board of health other than the town council.
6. Harold Metcalf, M. D., health officer.
7. Gratuitous vaccination was not provided during the year.
8. Undertakers make prompt returns of deaths.
9. Clergymen make returns of marriages promptly.

THOMAS J. PEIRCE, *Town Clerk.*

#### RICHMOND.

1. Nothing for the promotion of the public health has been done during the year.
2. This town has no public water service.
3. This town has no sewage system.
4. No new ordinances have been enacted during the year.
5. This town has no legal board of health other than the town council.
6. Charles A. Fuller, health officer.
7. Gratuitous vaccination was not provided during the year.
8. Undertakers have made more prompt returns of deaths than in former years.
9. Clergymen make returns of marriages promptly.

HALSEY P. CLARKE, *Town Clerk.*

#### SOUTH KINGSTOWN.

No reply from the town clerk.

## WESTERLY.

No reply from the town clerk.

2. From the water commissioners' report the following extracts are taken showing the exceptionally good quality of the supply of water furnished this town:

"Having been requested by the secretary of the Rhode Island State Board of Health, Dr. Gardner T. Swarts, to forward each month during the year samples of the water supply of the town for analysis by the chemist of the State board, I have collected these samples at the times stated and from the places designated by Dr. Swarts, and the results of these analyses, together with a copy of letter received from D. Swarts, will be found in the appendix to this report.

"THOMAS MCKENZIE, *Superintendent.*"

RHODE ISLAND STATE BOARD OF HEALTH.

PROVIDENCE, April 9, 1901.

*Mr. Thomas McKenzie, Superintendent Westerly Water Works, Westerly, R. I.:*

DEAR SIR:—I enclose, herewith, copies of the reports of the water analyses of the Westerly water supply made by the Board of Health during the past year.

The results from a chemical standpoint show the water to be of exceptionally good quality and one of the best supplies in the state, as compared with other supplies in the state. It is also noticeable that the hardness of the water is not excessive, a condition which would be expected, considering the source of the supply.

Yours truly,

GARDNER T. SWARTS, *Secretary.*



REPORTS OF  
HEALTH OFFICERS.

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1901.



## CIRCULAR TO HEALTH OFFICERS.

### CIRCULAR No. 131.

OFFICE OF THE SECRETARY OF THE STATE BOARD OF HEALTH,

PROVIDENCE, January 1, 1902.

*To the Health Officer:*

DEAR SIR:—**An important feature** of the annual reports of the Rhode Island State Board of Health is that of giving a connected history of the occurrence of contagious and epidemic diseases from year to year, as they may have prevailed in the different towns, whether epidemically or in a less degree, together with the location in the town (village or otherwise) and season of the year.

If the **proportion** of the **fatal** cases to the **whole number** of cases of the same **disease** could be given, the value of such reports would be very much enhanced. Such proportion can be ascertained only in such towns as *by town ordinance* require physicians to report all cases of such diseases as come within their charge.

**An approximate** proportion can, however, be given, after the subsidence of the disease, by inquiry of persons living in the immediate neighborhood of the prevalence of such disease, as to the number of the sick, or by house to house visitation where the sickness occurred, with the same inquiry, and by the comparison of the deaths with recoveries as so ascertained.

It is for the purpose of obtaining such information, in full or approximate, and also what may have been done to prevent and restrict diseases, that the questions in the inclosed circular are sent to the various health officers of the State.

**To Health Officers** who are not physicians, it may be said that the term **epidemic**, within the meaning of the questions proposed, is the prevalence of some disease to the extent of one or more persons affected with the disease to every five or six persons living in adjacent tenements or in the near neighborhood, or a smaller proportion, not less than one case of the disease in every ten or twelve of the population, extending over a large area of territory. One sick in every twelve to sixteen persons might be called a **large prevalence**, and one sick in



every twenty to twenty-five, a **moderate prevalence**. The number of cases of any one disease may have to be estimated, but make them as nearly correct as possible.

**If, therefore, you will have** the kindness to reply to the questions in the said circular, according to the best knowledge you have been able to obtain, and forward in the inclosed stamped envelope, you will favor one of the most important interests in the State, and greatly oblige.

Yours truly,

GARDNER T. SWARTS,

*Secretary State Board of Health.*

### CIRCULAR No. 132.

DEAR SIR:—Replies to the following questions, as suggested in the accompanying circular (No. 131), are respectfully solicited; said replies to be made on this circular, following each question:

1. Name of town.

2. Name of health officer.

3. Have there been, within your knowledge, any epidemics, or any large prevalence of contagious or infectious diseases in your town during the past year? If so, of what disease or diseases? in what locality or localities? how many of each disease?\* number of deaths? and in what months of the year?

| Diseases. | Locality. | No. of cases. | No. of deaths. | Months in which they occurred |
|-----------|-----------|---------------|----------------|-------------------------------|
|           |           |               |                |                               |

4. Was isolation maintained or attempted?\*

5. What proportion of the sick, if any, were isolated?

6. Was any inspection of premises made, where sickness prevailed, as to the sanitary condition of the cellars, pantries, sinks, sink-drains, water-closets, if

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\*According to the best knowledge obtainable.

any, cess-pools, out-house privies, distance of wells from accumulations of filth, etc., etc.? If so, please give a general statement as to whether they were sanitarily in conditions good or bad, or, if any thing or place was unusually unsanitary, give a full description. Or, if the cause of any outbreak of disease was found, please state what.

7. Did you make any sanitary inspections during the past year, by order of the town council or from your own option? If so, what were they and how made?

8. Do you know of any location in your town that seems to be particularly unhealthy to any considerable number of persons? If so, and the cause is suspected, can such cause be removed at any reasonable expense?

9. Do you report to your town council nuisances dangerous to the public health, or unsanitary premises within your knowledge; or of buildings unsafe for occupants in case of fire? (See Chapter 495, Section 6, Public Laws.)

10. Has there, to your knowledge, been any contamination of any of the water, milk, or ice supplies in your town?

11. Please give names and addresses of dealers in ice in your town.

# REPORTS OF HEALTH OFFICERS

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## BRISTOL COUNTY.

1. BARRINGTON.—No report from the health officer.

1. BRISTOL.

2. Thomas F. Head, health officer

3. There were no epidemics in this town during the year.

4. In cases of scarlet fever and diphtheria the infected houses were placarded.

6. Inspections of premises where sickness prevailed were made and in some instances the sanitary conditions were bad, but in most cases they were found to be in good condition.

7. Sanitary inspections made were mostly at my own option.

8. No unhealthy localities in this town are known.

9. All public nuisances, unsanitary premises, etc., are reported to the town council.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.

11. Quirk Bros., Morris Bros., John P. Reynolds and John Leahy are the ice dealers of this town.

1. WARREN.—No report from the health officer.

## KENT COUNTY.

1. COVENTRY.

2. John Winsor, M. D., health officer.

3. There were no epidemics in this town during the year.

4. Isolation was made in all cases where needed.

5. All cases, as far as is known, were isolated.

6. Inspections of premises where sickness prevailed were made and sanitary conditions usually found to be good.

7. Inspections of a number of cesspools, etc., in Washington, Anthony, and Quidnick were made and same were put in good condition.

8. No unhealthy localities in this town are known.

9. All public nuisances, unsanitary premises, etc., are reported to the town council.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.

11. Manchester Bros., Daniel Wood & Son, and Winfield Lewis are the ice dealers of this town.

1. EAST GREENWICH.

2. Elbridge G. Carpenter, M. D., health officer.

3. There were no epidemics in this town during the year.

6. Inspections of drains, cess-pools, and closets were made in all cases of sickness.

7. Sanitary inspections were made upon complaint of neighbors.

8. No unhealthy localities in this town are known.

9. All public nuisances, unsanitary premises, etc., are reported to the town council.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.

11. E. A. Sweet and George W. Sunderland are the ice dealers of this town.

WEST GREENWICH.—Has no health officer.

1. WARWICK.—No report from the health officer.

## NEWPORT COUNTY.

1. JAMESTOWN.—No report from the health officer.

1. LITTLE COMPTON.

2. John G. Hathaway, M. D., health officer.

3. Measles was very prevalent during the months of March and April, there being about sixty-eight cases of this disease and no deaths.

4. This outbreak occurred before my appointment as health officer. Quarantine was very imperfect.

5. To my knowledge, none of the sick were isolated.

6. None of the affected premises were inspected. The origin of the disease is unknown.

7. No sanitary inspections were made during the year.

8. No unhealthy localities in this town are known.

9. I have as yet had no occasion to report to the town council any public nuisances or unsanitary premises.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.

11. James L. Gray of Adamsville and James Shaw and Charles R. Wilbur of Little Compton are the ice dealers of this town.

#### 1. MIDDLETOWN.

2. George E. Ward, health officer.

3. Scarlet fever was quite prevalent during the month of December, there being about 10 cases of this disease and no deaths.

4. Isolation was maintained.

5. All of the sick were isolated.

6. There were no inspections made of premises where sickness prevailed.

7. No sanitary inspections were made during the year.

8. No unhealthy localities in this town are known.

9. I have as yet had no occasion to report to the town council any public nuisances or unsanitary premises.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.

11. There are no ice dealers in this town.

#### 1. NEWPORT.

The board of health consists of five members appointed as follows:

Rufus E. Darrah, M. D., for five years; Christopher F. Barker, M. D., for four years; S. Parker Cottrell, M. D., for three years; Robert Frame, for two years; Charles E. Lawton, for one year.

President, Christopher F. Barker, M. D.; Secretary, S. Parker Cottrell, M. D.; Clerk, Charles H. Clarke; Sanitary inspector, Robert L. Oman; Assistant inspector, George C. Shaw.

At a meeting held March 16, the board organized by electing as president Dr. C. F. Barker, and as secretary, Dr. S. P. Cottrell.

#### ANNUAL REPORT.

The board of health herewith presents its report for the year 1901. From time to time during the year the board has made reports upon various matters pertaining to the public health and its work. Although smallpox has twice invaded the city and a number of cases of typhoid fever have occurred, yet the health of the city for the year has been good. The accompanying mortality tables show the number of deaths to have been 362. This, in a population of 23,000 gives an annual death rate of 15.73 per 1,000. It must, however, be remembered that during the summer season the population of Newport is increased by several thousand people, consequently the death rate is somewhat lower than the figures indicate. The tables show a large proportion of deaths from causes incident to old age and consequently natural and unpreventable, and with one exception a small proportion from preventable diseases.

The exception is tuberculosis which has long been classed among communicable diseases. Pulmonary tuberculosis, or consumption, caused thirty-seven deaths, and other forms of tuberculosis caused six, making a total of 43, or nearly one-eighth of the whole number. The State legislature in response to an appeal from the Rhode Island Medical Society has taken steps towards the establishment of sanatoria for the purpose of controlling the spread of tuberculosis in the State, and this board has discussed and will probably recommend some measures for adoption in this city.

The number of cases of typhoid fever occurring during the year was fifty-four. Of these, in six cases the disease was contracted elsewhere, leaving forty-eight cases originating in this city. This is a very gratifying decrease from last year, when 124 cases occurred.

The occurrence of smallpox in June and again in October from different sources has already been reported to your honorable body, and account of the measures taken by the board of health to prevent the spread of the disease. In all there were fifteen cases, one in June and fourteen in October and November. Considering the number of people exposed and the length of time (10 days) that passed before the first case occurring in October was discovered by this board, it is surprising that no more cases occurred. This is to be attributed partly to the close observation that was kept over all those known to be exposed and their immediate isolation upon the appearance of symptoms, and partly to the immediate vaccination of all who had come in contact with the case. This city was probably never better protected against smallpox than now, since within the last three months more than 10,000 people have been vaccinated.



## DISPOSAL OF NIGHT SOIL.

The only method of disposal of night soil at present available is to have it carted to some place in the outskirts of the city or in Middletown, where it is used as a fertilizer. It has been clearly proved in other cities that typhoid fever has been caused by the contamination of vegetables by night soil so used. There is still a greater danger in this method of disposal from the possible contamination of the sources of our water or ice supply.

A complaint has already been received by this board concerning the spreading of night soil upon the ground in dangerous proximity to one of these sources. If the city water supply should be contaminated in this manner the result would be an epidemic far more general than that of last year when the source of infection was found to be local. In view of these facts the board believes that the use of night soil as a fertilizer should be stopped at the earliest possible moment. It further believes that the only safe disposal of night soil is through the sewers.

## TYPHOID FEVER.

During the three months, August, September, and October, twenty-seven cases of typhoid fever have been reported. In the same months last year, eighty-two cases were reported and the disease was prevalent until late in December. With few exceptions the cases this year have been sporadic and there has been no indication of any widely operating cause. In one case the disease appeared in a group of four houses whose occupants were drinking water from the same well.

The board of health recognized as its first and most important duty the prevention, if possible, of an occurrence of last year's epidemic of typhoid fever. With this object in view a careful and systematic inspection of all premises in the section of the city where the disease prevailed last year has been made, and a great deal has been accomplished toward removing possible causes of disease. Inspections have also been made in suspected places in other parts of the city.

In that section of the city where typhoid fever was most prevalent last year, there is a cluster of tenement houses in which the sanitary conditions were found so bad that in the judgment of the board they were unsafe for occupancy without radical changes. On account of delay and unwillingness on the part of the owner to comply with the orders of the board the tenants were warned to leave and ten out of thirteen families formerly living there have already moved away, and the board understands that the owner intends, after making the premises as clean as possible, to abandon them.

The board feels justified in taking this extreme action both on account of the excessively unsanitary conditions existing and from the fact that typhoid fever has recurred in those houses regularly every summer for several years and there



seems good reason for supposing that last year's epidemic originated there. On an adjoining property similar conditions were found; the same orders were issued and have been fully carried out.

The recent experience of New Haven where an epidemic of typhoid fever was caused by the contamination of the public water supply suggested the importance of examining the water shed from which our city water is derived. As nearly the whole of this water shed lies in Middletown it comes under the jurisdiction of the State Board of Health, and the assistance of Dr. Swarts, secretary of that board, was asked. Certain unfavorable conditions were found and brought to the attention of the Newport Water Works Company. Some of these conditions have already been corrected and it is expected that the remainder soon will be.

#### SMALL-POX.

A case of small-pox occurred in the person of a servant employed in a private family and who had been in this city only a few days before being taken sick. The case was reported to the board of health on June 18th. A small house sufficiently remote was immediately rented and the patient was isolated there in the care of a nurse. Every precaution was taken to prevent the spread of the disease. Watchmen were employed and a flag placed on the house as required by the State law, and all persons who had been exposed to contagion were vaccinated, and kept a sufficient time under observation. The patient made a good recovery and no other cases have occurred. The city is to be congratulated upon the prevention of the spread of the disease.

On October 12, the attention of the board was called to a case of small-pox that had existed for ten days, and during that time as the case had not been diagnosed no effort had been made to prevent the spread of the disease. The patient was at once removed with his wife, who had already begun to show the first symptoms of the disease, to the house hired by the board for the case that occurred in June, and a nurse was placed in charge. All those who upon investigation were found to have been exposed were immediately vaccinated and placed under constant supervision in order that the earliest symptoms of the disease might be detected. From this case, ten others have been developed and all but two of these were among those being kept under observation. With the increase in the number of cases it became necessary to employ a second nurse and a servant. It also became necessary to provide more room for the patients and a temporary building has been erected containing two wards capable of accommodating comfortably fourteen patients, besides a bathroom and rooms for attendants and disinfection. The hospital can now take twenty-four patients, if necessary, without crowding. The board deemed it wise to provide so much room because, although the time has probably passed for the development of cases from exposure

to the first case, yet it is quite possible that more may occur from exposure to some of those occurring later. Besides providing for daily examinations of all those known to be exposed the board has employed physicians to inspect the public and parochial schools and vaccinate all requiring it, has provided for free public vaccination by the city physician, and has furnished to all physicians vaccine virus free of charge. The board believes that by thus making every effort to secure general vaccination it was taking the surest means of protecting the city from the spread of the disease. The result has been extremely gratifying—the demand for virus has been so great that over nine thousand points have been used.

Of the cases that have so far occurred, four have been of a mild form, six severe, and one malignant, the patient dying on the second day after his admission to the hospital. While the presence of small-pox is a matter of grave import, and while it is yet too early to predict with any degree of assurance what the extent of its invasion will be, the spread of the disease up to the present time is no more than was expected from the beginning. Other cases may develop from exposure to those recently taken to the hospital, but they will be discovered and isolated promptly and for this reason and because of the great number of recent vaccinations the board hopes to be able to prevent an extensive spread of the disease.

#### COMMUNICABLE DISEASES REPORTED DURING THE YEAR.

Diphtheria, 33; measles, 71; scarlet fever, 46; small-pox, 15; typhoid fever, 54. Total, 219.

For the board of health,

CHRISTOPHER F. BARKER, *President*.

2. J. W. Sampson, executive officer, board of health.
4. Quarantine was absolute in all the infected cases and also in eighty-seven suspects.
6. The primary case having been brought from Boston, the sanitary condition of the infected houses was not taken into consideration. All were thoroughly fumigated.
7. About 4,000 sanitary inspections were made during the year. These were principally questions of sewerage and out-houses.
8. No unhealthy localities in this city are known.
10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this city.
11. The Arctic Ice Company is the ice dealer of this city.

1. NEW SHOREHAM.—No report from the health officer.

1. PORTSMOUTH.

2. Minot A. Steele, M. D., health officer.

3. There were no epidemics in this town during the year.

8. No unhealthy localities in this town are known.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.

11. William H. Tallman is the ice dealer of this town.

1. TIVERTON.

2. Edward P. Stimson, M. D., health officer.

3. There were no epidemics in this town during the year.

4. Isolation was maintained in all sporadic cases.

5. All cases of measles, scarlet fever, and diphtheria were isolated.

6. Inspections of premises where sickness prevailed were made and sanitary conditions usually found to be good.

7. Sanitary inspections were made either at my own option or by request of parties interested. In one case a well used by a number of families was found to be badly contaminated by sewerage. The consumers were warned not to use the water under penalty of illness. This well belonged to a mill corporation.

8. No unhealthy localities in this town are known.

9. All public nuisances, unsanitary premises, etc., are reported to the town council.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.

11. Brownell, of Tiverton, and Peekham, of Tiverton Four Corners, are the ice dealers of this town.

## PROVIDENCE COUNTY.

1. BURRILLVILLE.

2. John W. Clavin, health officer.

3. An outbreak of small-pox occurred during the months of June and July. There were twenty-four of this disease, none of which, however, were fatal.

4. A small-pox hospital was built at once and all cases quarantined there. Several cases of scarlet fever were also quarantined.

6. Inspections of premises where sickness prevailed were made, but no cause for the outbreak could be found. All places were thoroughly cleaned and fumigated.

7. Sanitary inspections were made both by council order and at my own option. Some forty sink drains, privies, cess-pools, and other nuisances were abated by me.

8. No unhealthy localities in this town are known.

9. All public nuisances, unsanitary premises, etc., are reported to the town council.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.

11. George W. Lovell, of Nasonville, Charles A. Moore, of Pascoag, and Frank W. Wood, of Harrisville, are the ice dealers of this town.

1. CENTRAL FALLS.

2. Charles F. Sweet, M. D., health officer.

3. As stated in previous report one fatal case of small-pox was discovered in this city in December, 1900. Many people had visited this patient, being ignorant of the nature of the disease, and as a result several other cases, two of which were fatal, ensued. There were eight cases in all during the year, five of which seem traceable to the first case. The months in which they occurred were as follows: January, five; March, two, and July, one. Quarantine was immediately established and this city at that time having no small-pox hospital, the cases were treated where they resided, every one in the house being quarantined. A small-pox hospital was erected in time to accommodate the later cases, public vaccination was carried out, and every possible means for checking the spread of the disease taken. The source of the later cases has not as yet been definitely determined.

4. Isolation was maintained.

5. All of the sick were isolated.

6. Inspections of premises where sickness prevailed were made, but sanitary conditions were found to be good.

7. All unsanitary conditions, reported or unreported, are investigated and remedied.

8. No unhealthy localities in this city are known.

9. All public nuisances, unsanitary premises, etc., are reported to the board of health when not abated as ordered.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this city.

11. The Central Falls Ice Company and T. Deheitre are the ice dealers of this city.

1. CRANSTON.

2. Daniel S. Latham, M. D., health officer.

3. The contagious diseases reported during the year were as follows: scarlet fever, twenty-six, and no deaths; small-pox, eleven, and no deaths; and a few scattered cases of diphtheria, with one death.

4. Very good isolation was maintained.

5. All of the sick were isolated.

6. Sanitary inspections of premises where sickness prevailed were made and conditions found to be good and apparently not to blame.

7. Several sanitary inspections, mostly of sink drains, were made at my own option.

8. No unhealthy localities in this town are known.

9. All public nuisances, unsanitary premises, etc., are reported to the town council when not abated as ordered.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.

11. The Crystal Ice Company is the ice dealer of this town.

1. CUMBERLAND.

2. Raynor Woodhead, M. D., health officer.

3. There were no epidemics in this town during the year.

6. Every tenement on the Cumberland side of Manville was inspected. Most of the cellars had water in them and most of the sink-drains were not connected with the cess-pools. Several families were in the habit of using the same closet.

8. I should consider the upper row of the Manville tenements an unhealthy locality. The cause is owing to the close proximity of the water closets to the dwelling houses. They are also low studded and not emptied often enough.

9. All public nuisances, unsanitary premises, etc., are reported to the town council.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.

11. James Meharg, of Lonsdale, and the Pawtucket Ice Company are the ice dealers of this town.

1. EAST PROVIDENCE.—No report from the health officer.

1. FOSTER.—No report from the health officer.

1. GLOCESTER.

2. George A. Harris, M. D., health officer.

3. There were no epidemics in this town during the year.

6. Inspections of premises where sickness prevailed were not made.

7. No sanitary inspections were made uring the year.

8. No unhealthy localities in this town are known.

9. No occasion for reporting public nuisances or unsanitary premises has arisen during the year.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.

11. Wilson & Place are the ice dealers of this town.

1. JOHNSTON.

2. Ralph H. R. Shaw, M. D., health officer.

3. There were no epidemics in this town during the year.

7. Sanitary inspections were frequently made at my request by the town board of health.

8. I have no reason to believe that any unhealthy locality exists in this town.

9. All public nuisances, unsanitary premises, etc., are reported to the town council.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.

11. The Pocasset and the Hughesdale Ice Companies, and William E. Merritt, are the ice dealers of this town.

1. LINCOLN.—No report from the health officer.

1. NORTH PROVIDENCE.

2. John B. Corbett, M. D., health officer.

3. Scarlet fever was quite prevalent throughout the year, there being forty-six cases of this disease, none of which, however, were fatal.



4. Isolation was maintained.
5. All of the sick, in families where there were one or more children, were isolated.
6. The origin of this disease was traced to the large quantities of swill carted from Providence.
7. No sanitary inspections were made during the year.
8. This is a very healthy town with the exception of the vicinity of Charles street, where swill is carted.
9. All public nuisances, unsanitary premises, etc., are reported to the town council.
10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.
11. William R. Sweet, of Centredale, is the ice dealer of this town.

1. NORTH SMITHFIELD.

2. John B. Greene, health officer.
3. There were no epidemics in this town during the year.
4. Isolation was maintained.
6. No inspections of premises where sickness prevailed were made.
7. One sanitary inspection in regard to a filthy cesspool was made.
8. No unhealthy localities in this town are known.
9. All public nuisances, unsanitary premises, etc., are reported to the town council.
10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.
11. C. R. Day, of Millville, Mass., is the ice dealer of this town.

1. PAWTUCKET.

2. Byron U. Richards, M. D., city physician.

SPECIAL REPORT OF THE SMALL-POX OUTBREAK IN PAWTUCKET.

*To the Honorable Board of Aldermen of the City of Pawtucket:*

After many years of freedom from small-pox it was the misfortune of this city to be visited by the scourge during the past summer.

Other cities and towns in this vicinity had been contending with the disease more or less for the past year, consequently we were not unmindful of our danger nor unprepared, when finally we had to cope with it.



The superintendent of health was notified of a case in the family of Joseph Patnaude, 942 Main street, on Monday, July 8. This patient was a boy of ten years. Later in the day, the department was informed of two more cases, one a child of six, the daughter of Mr. Henry Blais, at 32 Quiney avenue, and the other the 13 year old daughter of Marshall Daigle, 7 Ship street. In addition to these there were on the next day reported to us the following cases: Aurore Noiseux, age 11; and Alice Bergeron, age 11, at 41 Slater street; and Fred Bourassa, age 11, at 21 Comstock street.

On July 10, another case was located in the family of Mrs. Langevin, 99 Capitol street; this boy was also 11 years old.

Fortunately Pawtucket has an excellent isolation hospital, commodious and in every detail thoroughly up-to-date. These little patients were promptly moved to the hospital and placed under the care of a first class nurse and in two instances the mother, being immune, was allowed to go with her child and give assistance in the work of the hospital.

On the advice of the secretary of the State Board of Health, the houses were fumigated and the quarantine raised, members of the families were vaccinated, and a daily visit made upon them until all danger was passed.

As these children came from large families this became quite a task as we had to see between fifty and sixty suspected persons each day for two weeks.

There were among these ten children who had never been vaccinated; these all, with but one exception took the disease, but it was greatly modified by the vaccine which was promptly used.

Six of these children were cared for in the hospital while three illegally broke quarantine and fled to Three Rivers, Mass., where they were placed under quarantine by the Massachusetts authorities. Members of the household, however, in which they resided, contracted small-pox from them.

None of the patients of the hospital were at any time seriously ill and the last ones were discharged August 6 and the place was properly fumigated.

We were again informed of a case of small pox on the 26th of August; this time the victim was Mrs. Mary Harris, 84 Whitman street, 36 years of age and the mother of 6 children; fortunately all were immuned by vaccination except the husband and an infant.

Mrs. Harris was taken to the hospital August 27 and a nurse procured. Her illness was of a far more serious nature than any previous case; the eruption was of the confluent type and her suffering was great; her recovery was, however, finally complete.

The husband, Arthur Harris, was taken with the disease September 8, but was confined to the bed but a few days and both were discharged, well, October 2, and the hospital once more fumigated.

As to the cause of the first outbreak we have been unable to make it out. We feel certain, nevertheless, that the source of infection was in the St. John's parochial school, during the very last days before the summer vacation, consequently seven children, six in room No. 3, and one in room No. 1, and whose homes were quite separated, took the disease at about the same time.

The later outbreak is better understood. The father, an immune, having previously had small-pox, came in contact with the infection in the Social mill, in Woonsocket, and Mrs. Harris did her father's washing, and in about two weeks came down with the disease; this has always been considered a common cause for spreading variola.

Regarding the financial expense to the city, it has of necessity been considerable as we were obliged to buy nearly everything for the hospital, including a stove, tent, and twelve beds; we have also had to furnish much clothing and groceries and pay rent.

It was our intention to itemize this account, but as it can all be found with the city auditor we have thought it unnecessary to do so. The total is about \$2,400, besides some extra vaccination work, payment for which has been made from our last year's appropriation.

We have been more unfortunate than many other places in having two outbreaks to deal with instead of only one, but it has been our exceedingly good fortune to confine the disease in every instance to the family in which it was first located, it not having at any time spread to any other family.

Our most sincere thanks are due to his honor the mayor, and each member of the board of health, for valuable support, also for aid received from the overseer of the poor and from Mr. and Mrs. Read, at the city farm.

Very respectfully submitted,

BYRON U. RICHARDS,

*Superintendent of Health.*

1. PROVIDENCE.
2. Superintendent of health, Charles V. Chapin, M. D.; vaccinating physician. Charles H. Leonard, M. D.; medical inspector, Eugene P. King, M. D.
3. The following extracts from Dr. Chapin's report will fully answer all questions in circular No. 132:

#### GARBAGE.

During the year the "swill and house offal" was collected by Messrs. A. H. & J. Barney under a temporary arrangement at the rate of 15½ cents per capita. The amount paid has been \$2,299.17 per month. The contractors use from 20 to 22 two-horse wagons, and it is estimated that about 16,000 tons of garbage are collected annually.

A small amount of garbage is collected by farmers who receive a special license for this. There are also a considerable number of farmers who purchase swill from the contractors and draw it out into the country to feed to swine. Each person is required to have a license for this, and to carry the swill in a tight box closely covered. In all, 112 of these licenses were issued during 1901. These licenses run from April 1st to April 1st. This change in the date for granting licenses was made so that it might not be necessary to repair and paint the wagons for inspection during the bad weather of winter.

#### BOARDING HOUSES FOR INFANTS.

These boarding houses are required to take out licenses annually by Chapter 464 of the Public Laws (20 May, 1897). They must also be inspected annually by this department. Twenty-one licenses were issued in 1901 authorizing the receiving of 45 children.

There are no baby farms in the ordinary acceptance of the term in the city, that is there are no places where large numbers of children are kept together under poor surroundings and with neglect of all sanitary precautions.

#### LODGING HOUSES.

The lodging houses in this city have long been in a deplorable condition. I have frequently had occasion to visit them and have found them crowded and filthy. The captain of the Central police station (now chief of police), and the overseer of the poor also have several times suggested that this department undertake to secure better sanitary conditions in these houses. But quite independently of any executive action the city council last November voted to ask the general assembly for authority to regulate these houses. In the hope that such authority would be given and with a view to securing data on which intelligent regulation might be based, I made an inspection of all the lodging houses that were reported to me by the police department. There were nine of them, besides the municipal lodge. They are as follows:

| LOCATION.                  | PROPRIETOR.          | BEDS. |
|----------------------------|----------------------|-------|
| 407 Richmond street.....   | Frank D'Ambruso..... | 22    |
| 385 South Main street..... | Sailors' Haven.....  | 20    |
| 98 Wickenden street.....   | Salvation Army.....  | 74    |
| 35 Power street.....       | Joseph Fallon.....   | 52    |
| 213 South Main street..... | William Woleon.....  | 96    |
| 297 Dyer street.....       | Antonio Granata..... | 25    |
| 8 Steeple street.....      | M. Plante.....       | 51    |
| 32 Fountain street.....    | William Wolcon.....  | 70    |
| 103 South Main street..... | Samuel Marks.....    | 69    |

It will be seen that in the above houses beds are provided for 479 persons. But it must not be imagined that at times these places do not receive a very much larger number. Several of the houses have long benches on which the men sleep, and occasionally a considerable number will be found sleeping upon the floor. The municipal lodge accommodates about ninety-four. The municipal lodge is closed from May 1st to October 1st, but the other houses are open at all times, though their patronage is very much less in the summer than in the winter. The following are among the items noted during my inspection:

*Overcrowding.*—According to the Boston law 300 cubic feet is the minimum air space allowed each lodger. In Chicago and New York it is 400 feet. In Providence I found that the accommodations afforded 132 persons was less than 300 cubic feet of air space, the accommodation for 132 was between 300 and 400, and the accommodation for 215 was over 400 cubic feet. It must, however, be remembered that in several houses the nominal space is frequently cut down by the admission of a greater number of lodgers than there are beds. The greatest crowding was noticed in the salvation army quarters, which, in most respects are far superior to the other lodging houses catering to the same class of patrons. The most ample accommodations were found in the sailors' haven. In most of the lodging houses the beds are in large dormitories, but at 103 and 213 South Main street there are a few small single and double rooms which let for a somewhat higher price. At the sailors' haven each man's bed is shut off by a partition running up about eight feet. At 35 Power, 297 Dyer, and 407 Richmond streets, old dwellings are used for lodging houses and are very poorly adapted for the purpose. In two instances beds were found in closets.

*Ventilation.*—The salvation army quarters and the sailors' haven have ventilators in the ceiling, but in the other houses the only means of changing the air is by open windows.

*Heating.*—All the houses use stoves for heating except the salvation army, which has a hot air furnace. This is, of course, far superior to stoves and does something towards diminishing the evil of overerowingding.

*Lighting.*—The question of lighting is important in view of fire danger. At the sailor's haven, 35 Power street and 213 South Main, gas is used exclusively; at 32 Fountain, 8 Steeple, 407 Richmond, and 297 Dyer, lamps only are used, and at 103 South Main street and at the salvation army both gas and lamps are employed.

*Beds.*—At 297 Dyer street, 407 Richmond, 35 Power, 8 Steeple, 32 Fountain, and 103 South Main street wooden cots (with woven wire springs) or wooden bedsteads are almost exclusively used. At 213 South Main, the sailor's haven and the salvation army, iron bedsteads with woven wire springs are used. At the salvation army these are double, one above another, and some of them are



arranged in fours. Most lodging house regulations require that the beds shall be 18 or 24 inches apart, but in Providence they are often found to be much nearer together. In no case was any water-proof covering used to protect the mattress, and many of the mattresses were in consequence very filthy and offensive. Some of the houses provide one sheet only for certain beds, and charge 10 cents for these beds, while two sheet beds require a fee of 15 cents. Comforters are generally used, though at the sailors' haven blankets only are found, and at the salvation army blankets are used on most of the beds. In Boston, comforters are forbidden, as it is impossible to wash them, and they become extremely filthy before they are worn out. At the sailors' haven the bedding is very clean. At the salvation army the sheets and blankets were found to be in very fair condition. In all the other lodging houses the bedding was usually very dirty, and in most cases extremely filthy and full of vermin. This was particularly true of the comforters and mattresses. The sheets are sometimes washed, though it may be at rare intervals, but the comforters continue to accumulate dirt for an indefinite period. As a rule the habits of lodging houses sleep naked, but they do at times wear more or less of their filthy apparel to bed, and in some of the houses men may be seen on the beds with all their clothes on and also their shoes.

At least three of the poorer and larger houses provide slanting benches on which loafers can lie during the day. During the congested season these are also used at night, five cents being required for the privilege of sleeping on them.

*Cleanliness.*—In general, it may be said that when inspected, the lodging houses, with the exception of the municipal lodge, the sailors' haven, and the salvation army, were in a very filthy condition. The beds and bedding have been described. The floors and woodwork were covered with thick layers of dirt and expectoration, the sinks and water-closets were dirty and often obstructed, and the floor around them wet and offensive, and, lastly, the lodgers themselves were the dirtiest of all. In several of the houses the floors were so poor, old and worn, that it would be very difficult to keep them clean even if the attempt should be made.

*Plumbing.*—In the sailors' haven the plumbing is excellent, in all the others it is unsatisfactory, and in some execrable. Bath tubs are found at the sailor's haven, the salvation army, and at 35 Power street, but at the latter place there is no hot water and the tub is practically never used. The water-closets in most of the houses are defective, poorly lighted, unventilated, and filthy. In some cases they are placed right in the dormitory. At 297 Dyer street, the water-closet is in the cellar, and at 407 Richmond street there is no water-closet, but a privy vault in the yard instead. Wooden buckets standing in the dormitories are used in that house as a convenient substitute for a water-closet, and similar

arrangements have been seen in other houses. When urinals are provided their condition is like that of the closets. Iron sinks are used for washing. In no case is the floor around the closets, urinals, or sinks covered with water-proof material.

*General Conditions.*—At the sailors' haven twenty-five cents is the price of a night's lodging and accommodations commensurate with the price are afforded. At the other houses the prices are ten and fifteen cents with some poor soup and stale bread for breakfast, and the accommodations are not worth the price. At the salvation army alone is any record made of the lodgers' names. Men may come and go and no questions are asked. Bad as is the filth of the lodging houses of this city a worse feature is their low moral tone. At the sailors' haven and the salvation army chronic "bums" are not wanted, but at the other houses the large proportion of lodgers are loafers and alcoholics, and a great many of them are well known in the police courts of this and other cities. Men may be seen at all hours of the day and night loafing and sleeping off the effects of intoxication. Beer is frequently brought in from neighboring saloons. Such surroundings are degrading to the small minority of better men, who are, through misfortune, temporarily driven to the cheap lodging house. These houses are well known to be the active means of spreading contagious disease, especially small-pox. Six out of thirty-seven cases during the present outbreak of that disease were among lodgers. Great difficulty was experienced in dealing with the disease in these places, and it was almost impossible to learn anything about the patient or who had been exposed. Very little assistance was given the inspectors by the keepers of these houses. This experience has shown that to protect the public from the spread of disease, if for no other reason, the lodging houses of this city need strict supervision.

The conditions at the municipal lodge are far superior to any of the houses receiving a similar class of persons and in all respects are exceedingly satisfactory.

#### DISINFECTION.

Disinfection after communicable disease in the city is not compulsory, and is only done at the request of the family. It is done by this department without charge.

Formaldehyde disinfection has been done in nearly every instance. A modified Chicago method is followed. In some of the houses sheets are hung up and sprayed exactly as in Chicago, but in a large proportion of cases the spray is applied to the carpets, rugs, hangings, bedding, etc., that may happen to be in the room, all of which are spread out as freely as possible. Occasionally goods are removed from the house for steam sterilization. Corrosive sublimate and formalin are left at nearly every infected house with directions as to their use.

## VACCINATION.

During the year 1901 the number of persons vaccinated was 6,234. The only public vaccination has been at the fourth ward room on Fountain street Friday afternoons. The use of humanized virus which had hitherto been chiefly employed, was discontinued early in the year and glycerinized virus furnished by the health department of the city of New York was used. The number of certificates of vaccination issued was 3,407. The following table gives the number of persons vaccinated and the number of certificates issued from 1856 to 1880, from 1881 to 1890, and during each year since that time:

| YEAR.                 | Persons<br>Vaccinated. | Certificates<br>Issued. |
|-----------------------|------------------------|-------------------------|
| 1856-1880.....        | 24,142                 | 32,585                  |
| 1881-1890.....        | 28,567                 | 17,525                  |
| 1891.....             | 1,738                  | 2,112                   |
| 1892.....             | 2,440                  | 2,407                   |
| 1893.....             | 1,905                  | 2,359                   |
| 1894.....             | 3,086                  | 2,809                   |
| 1895.....             | 1,511                  | 2,050                   |
| 1896.....             | 1,963                  | 2,536                   |
| 1897.....             | 2,218                  | 2,900                   |
| 1898.....             | 2,157                  | 2,430                   |
| 1899.....             | 2,863                  | 2,650                   |
| 1900.....             | 2,168                  | 2,550                   |
| 1901.....             | 6,234                  | 3,407                   |
| Total, 1856-1901..... | 80,992                 | 78,320                  |

## MOSQUITOES.

During the years 1900 and 1901, Prof. F. P. Gorham and myself devoted a great deal of time to the study of mosquitoes in this city. These investigations were undertaken to determine the species here present, the breeding places of the insects and their life histories. One object we had was to study the relation between the distribution of malaria and the habitat of certain species of mosquitoes with a view to reducing malarial disease by restricting the propagation of the mosquitoes. A second object was a determination of the breeding places of the common house mosquitoes in order that it might be possible to diminish, if not to entirely abate the mosquito nuisance in this city.



In reporting on this mosquito question I would call your attention to a number of important facts in the life history of these insects. The adult insect hibernates and appears during early spring to lay its eggs for the next summer's brood. Sometimes comparatively few mosquitoes survive the winter and sometimes the number is very large, so that in March and April they may, in certain places, be as numerous as in September. I have seen the cellar of a dwelling fairly swarming in early spring, and a few may be found in almost every house. The mosquito lays its eggs in small bodies of water and in a few days they hatch out into the larvæ or wigglers. These grow rapidly in the water and in from two to four weeks become adult mosquitoes. There are thus a number of broods through the season and this is, perhaps, one reason why they are more numerous during the late summer. In the fall some of the mosquitoes die and some survive the ensuing cold weather as was stated above.

There is every reason to believe that malarial disease is spread through the agency of a single genus of mosquito. These insects may bite a person who has malaria and may then become themselves infected with the minute parasite which causes the disease and which lives and propagates in the blood of the patient. After a short time this malarial parasite increases in great numbers in the poison gland and other parts of the infected mosquito, and if that particular insect happens to bite another person, that person is pretty certain to have malaria. It is very probable that this is the only way in which malaria spreads. At any rate, it has been shown that if persons in malarious districts are protected from the bites of mosquitoes they will not contract the disease.

The genus of mosquitoes which are known to transmit malaria is *Anopheles*. Two species are found in this city, *A. maculipennis* and *A. punctipennis*. They have similar habits and are about evenly distributed. A map has been prepared, which can be seen in my office, to show the distribution of the different kinds of mosquitoes. On this map the area surrounding the breeding places of *anopheles* is painted blue. A study of this map will show that nearly every fresh water swamp, pond or stream which is shallow, or has shallow reedy shores, is the breeding place of this kind of mosquito. We have not found it breeding in very dirty water, such as cesspools, catch-basins, and foul smelling pools, though other species of mosquitoes do breed in such places. The malarial mosquito prefers comparatively clean water, and it is found in the greatest numbers where the water is quiet and where the wigglers can find shelter among rushes, weeds, and grass. It is very often found in shaded waters. A favorite place is the cow-tracks filled with water in swampy meadows. We have not found it in tubs or similar collections of water about houses in this city, though Professor Gorham found them in a rain-water barrel in Wickford. We have found these mosquitoes in water from early May to October, but in the latter month they were not nearly

as numerous as in September. *Anopheles* are found to breed in all those parts of the city which are known to be malarious.

Malarial disease first appeared in Providence in 1880, and has prevailed with varying intensity ever since. Probably the most severe outbreak was in 1896, at which time I estimated that there were about 5,000 cases of intermittent fever in the city. A peculiarity of the disease that year was that there was a great deal of it in certain sections of the city during March and April. There was probably less malaria than usual in the city in 1901. I attempted to learn something about the amount and distribution of malaria, and also at the same time something more about the distribution of mosquitoes, by sending to all the physicians of the city the following circular:

HEALTH DEPARTMENT,  
OFFICE OF SUPERINTENDENT OF HEALTH, CITY HALL,  
PROVIDENCE, Sept. 28, 1901.

DEAR DOCTOR:

This department has during the past summer been investigating the distribution in this city of those varieties of mosquito which are said to be the agents in the transmission of malarial disease. In order to further carry on this study it will be necessary to know in what parts of the city malaria has prevailed. I shall esteem it a favor if you will kindly inform me on the enclosed blank of the cases of chills and fever which have come to your notice. Reports of cases of malaria other than those presenting intermittent fever are not desired. Neither are cases desired which probably contracted the disease outside of the city.

Attention has also been given to those other varieties of mosquito which, though not bearers of disease, are often a most tormenting nuisance. It will be of assistance in planning the destruction of these insects if you will kindly note as indicated in the blank your experience with them at your residence. If you could send me a few specimens caught either within or without the house I should be glad to have them. The easiest way to catch them is to use a small, wide-mouthed bottle in which a little alcohol has been placed. When the insect rests on the ceiling, wall, or clothing, it may be caught by placing the mouth of the bottle over it, when it will fly into the bottle and be killed by the alcohol. When a few have been caught in this way the bottle may be corked and sent to the city hall with the name and location.

Yours truly,

CHARLES V. CHAPIN,  
*Superintendent of Health.*

The results of this enquiry were, however, not very satisfactory. About 800 cases were reported, but many of them were not definitely located. Only 70 physicians reported and some that must have treated many cases were among those who did not report. Some I feel sure exaggerated the number of cases

treated, and some I am sure were careless as to diagnosis. I do not feel that I learned very much about the amount of distribution of the disease. No reliance can be placed upon the deaths reported as due to malaria. This disease rarely causes death in this climate, and deaths attributed to it are almost invariably due to something else. From what I have learned in this and previous years, it would appear that malaria was not as prevalent as usual in 1901. Cases were found living in all parts of the city, but as has been the case in other years more were reported from the outlying portions of the city than elsewhere, and at several points where there has in other years been a marked group of cases the same thing was noticed this year. In a general way it may be affirmed that a very large proportion of the cases occur in locations which must be infested with *anopheles* mosquitoes. It is furthermore, not at all unlikely that some of the cases reported from the thickly built parts of the city and far from swamps, were in reality contracted while the person was temporarily in a truly malarious district.

The discovery of the relation of the mosquito to malaria has merely served to emphasize what was perfectly well known before, the close dependence of malaria upon the near presence of shallow bodies of fresh and comparatively clean water. Two much discussed and uncertain points have, however, been cleared up. It is now known that malaria is not disseminated through drinking water, and that it is not caused by digging up or excavating the soil unless, indeed, as often happens, shallow pools are caused thereby. This discovery is, however, of great value in assisting us in making a rational effort to exterminate the disease. We can now quite accurately determine the places in which the mosquito, which is the carrier of the disease, breeds, we can determine when the danger has been overcome, and we have learned how in some cases the work can be done in a comparatively simple and cheap manner. The problem of the complete extermination of malaria is not, however, simple or easy of solution. It is necessary in the first place that the work should be under the constant supervision of an expert. There is no use in attempting anything without a constant examination of all the possible breeding places of mosquitoes. Each one of the infected places must be treated in the way which is cheapest and most effectual. Professor Gorham and I experimented some with kerosene, and it did not seem to us that there were many malarious spots in this city which could be treated in this way. Grass and rushes interfere greatly with the use of kerosene, and if these are cleaned out the mosquitoes may disappear or may be kept down by stocking the place with fish. The authorities in Havana found that kerosene was of little use in fighting *anopheles*. The same is true of fish. There are only a few places where they can be successfully used to exterminate the mosquitoes. The chief reliance must be placed on filling and draining. The extension of the sewer system and the consequent drainage of swampy meadows and small streams is the most effectual

means of doing away with malaria. Much has been accomplished already, and more can be done by building some of the sewers that are now under discussion. Some small ponds can and should be filled and in some cases the cost would be very small. The only way to treat swampy meadows is probably by ditching or underdraining. If the former method is employed the ditches must be kept free from grass and perhaps kerosene be used. A more difficult problem is found in some of the larger ponds. To keep them free from weeds and perhaps to apply kerosene besides would be pretty expensive, but at present no other means are known.

Besides studying the malarial mosquitoes we gave considerable attention to the other species of this insect which have a share in the mosquito nuisance which is so annoying over a large part of the city during summer and autumn months. Among Providence mosquitoes we noted *Culex pungens*, *C. stimulans*, *C. sollicitans*, *C. impiger*, *C. triseriatus*, *C. excrucians*, and *Uranotania Sapphirina*. By all odds the chief offender is *C. pungens*. This is the mosquito which is almost invariably the destroyer of our rest and comfort. Probably at times in the suburbs *C. stimulans* and also the two species of *Anopheles* may be annoying, and near the salt marshes where it breeds *C. sollicitans* is quite a pest. But the latter mosquito does not enter houses to any great extent. But over nearly the whole of the city, both the thickly settled portions and the suburbs, *C. pungens* is the common house mosquito. If we could exterminate this mosquito nine-tenths of the mosquito nuisance would be done away with. This mosquito is not very particular in the selection of its breeding places, and is found in almost every body of fresh water. It, however, prefers water that is rather dirty and may be found in the foulest pools which support hardly any other animal life. It is, therefore, rarely found in the same pools as *Anopheles*. Deep clear water it does not breed in. Neither this nor any other mosquito has ever been found by us in the Hope reservoir. For some time we were puzzled to know where the breeding places could be which furnish the enormous numbers of these mosquitoes that are found in the built up portions of the city. At last we discovered that the catch-basins that are found on the street corners are the chief seat of the trouble. That these basins are the breeding place of mosquitoes was noted independently of us by Drs. Denny and Chase of Brookline, but had never before been observed. These catch-basins are probably the chief source of the non-malarious mosquitoes which infest the city. These insects are also found in some of the dirtier pond holes and in the Moshassuck river, and occasionally in tubs or barrels on private premises. Some of the smaller ponds should be filled, and some might, perhaps, be treated with kerosene. Property owners might be fined for maintaining artificial breeding places like tubs or fountains. How to deal with the river is not so easy a problem and would probably require some experimentation. The



catch-basins could probably be treated with oil and the mosquitoes kept from breeding in them, and in this way the greater part of the mosquito nuisance could be prevented. This could not, however, at least at first, be done without skilled supervision. How much it would cost to do this work is difficult to say, but I should think that the common, non-malarial mosquito could be largely driven out of the more thickly built part of the city for perhaps \$2,000 for a season's work. While in Havana recently, I was much impressed with the success of the health authorities there in exterminating the yellow fever mosquito, which breeds under very much the same conditions as our common house mosquito in Providence. On account of the numerous receptacles for holding rain-water on nearly all private premises in Havana the difficulty of the work was much greater than would be that of a similar undertaking here. In concluding this subject I would say that it required many days of patient research to obtain the facts herewith presented. Most of this work was done by Prof. Gorham without any compensation from the city.

#### CONTAGIOUS DISEASE HOSPITAL.

The contagious, or "city ward" of the Rhode Island Hospital, a description of which may be found in my report for 1896, page 37, was built by the city on the grounds of the Rhode Island Hospital and was opened January 13, 1896. The ward is maintained by the Rhode Island Hospital, and the city pays \$15 per week for every patient sent to the hospital by this department. During the year there were removed to the hospital under my direction 153 cases, and the total expense to the city for caring for them was \$5,039.58.

The Rhode Island Hospital first began to receive patients with scarlet fever and diphtheria in 1891, and the following shows the number of cases admitted since that time, and also the number of deaths that occurred in the hospital:

| YEAR.       | SCARLET FEVER. |         | DIPHTHERIA. |         | Total<br>Cases. | Expense.  |
|-------------|----------------|---------|-------------|---------|-----------------|-----------|
|             | Cases.         | Deaths. | Cases.      | Deaths. |                 |           |
| 1891.....   | 6              | 0       | 4           | 1       | 10              | \$486 43  |
| 1892.....   | 13             | 2       | 4           | 1       | 17              | 1,553 36  |
| 1893.....   | 20             | 1       | 5           | 1       | 25              | 1,267 77  |
| 1894.....   | 27             | 2       | 4           | 2       | 31              | 2,297 07  |
| 1895.....   | 37             | 0       | 27          | 3       | 64              | 3,614 78  |
| 1896.....   | 35             | 2       | 103         | 10      | 138             | 4,679 64  |
| 1897.....   | 22             | 2       | 57          | 6       | 79              | 4,924 35  |
| 1898.....   | 21             | 2       | 70          | 6       | 91              | 3,404 74  |
| 1899.....   | 40             | 2       | 47          | 3       | 93*             | 4,390 06  |
| 1900.....   | 49             | 1       | 87          | 10      | 147†            | 6,943 61  |
| 1901.....   | 37             | 2       | 115         | 20      | 153‡            | 5,039 58  |
| Totals..... | 307            | 16      | 523         | 63      | 848             | 38,601 39 |

\* Measles, 6.

† Measles, 21.

‡ Measles, 1.

Besides board paid for patients at the hospital as above, \$51.20 was expended in assistance and care of indigent patients at their homes.

## TYPHOID FEVER.

The following table shows the number of cases and deaths for each month during the last seventeen years, and the number and ratio of cases and deaths each year during the last eighteen years:

*Typhoid Fever.*

| YEAR.       | JAN.   |         | FEB.   |         | MAR.   |         | APRIL. |         | MAY.   |         | JUNE.  |         | JULY.  |         | AUG.   |         | SEPT.  |         | OCT.   |         | NOV.   |         | DEC.         |       | Total Deaths. | Ratio of Deaths to Cases. |
|-------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------------|-------|---------------|---------------------------|
|             | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Total Cases. |       |               |                           |
| 1884.....   |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |              | 122   | 52            | 42.62                     |
| 1885.....   | 6      | 37      | 48     | 27      | 25     | 45      | 32     | 26      | 415    | 68      | 511    | 84      | 1      |         |        |         |        |         |        |         |        |         |              | 84    | 44            | 52.38                     |
| 1886.....   | 6      | 35      | 2      | 55      | 55     | 33      | 4      | 112     | 624    | 816     | 1113   | 59      | 6      |         |        |         |        |         |        |         |        |         |              | 104   | 53            | 50.96                     |
| 1887.....   | 5      | 61      | 34     | 3       | 3      | 2       | 23     | 1       | 810    | 39      | 718    | 210     | 2      |         |        |         |        |         |        |         |        |         |              | 63    | 39            | 59.09                     |
| 1888.....   | 9      | 52      | 4      | 33      | 32     | 62      | 16     | 113     | 520    | 823     | 9177   | 15142   | 47     |         |        |         |        |         |        |         |        |         |              | 403   | 103           | 25.55                     |
| 1889.....   | 35     | 514     | 86     | 27      | 96     | 11      | 2      | 113     | 629    | 434     | 331    | 1221    | 6      |         |        |         |        |         |        |         |        |         |              | 197   | 59            | 29.79                     |
| 1890.....   | 12     | 45      | 311    | 67      | 54     | 21      | 24     | 17      | 313    | 318     | 29     | 39      | 5      |         |        |         |        |         |        |         |        |         |              | 100   | 39            | 39.00                     |
| 1891.....   | 6      | 43      | 25     | 55      | 16     | 25      | 39     | 317     | 617    | 629     | 574    | 1614    | 9      |         |        |         |        |         |        |         |        |         |              | 190   | 62            | 32.63                     |
| 1892.....   | 8      | 4       | 513    | 214     | 35     | 56      | 210    | 423     | 220    | 319     | 618    | 712     | 4      |         |        |         |        |         |        |         |        |         |              | 144   | 51            | 35.42                     |
| 1893.....   | 23     | 36      | 17     | 211     | 111    | 36      | 326    | 1128    | 512    | 318     | 624    | 625     | 6      |         |        |         |        |         |        |         |        |         |              | 197   | 50            | 25.38                     |
| 1894.....   | 50     | 1429    | 730    | 513     | 78     | 611     | 412    | 730     | 325    | 421     | 520    | 69      | 2      |         |        |         |        |         |        |         |        |         |              | 258   | 70            | 27.13                     |
| 1895.....   | 10     | 16      | 36     | 113     | 17     | 411     | 33     | 116     | 314    | 417     | 850    | 664     | 12     |         |        |         |        |         |        |         |        |         |              | 227   | 46            | 20.26                     |
| 1896.....   | 18     | 48      | 16     | 45      | 17     | 111     | 315    | 624     | 624    | 413     | 523    | 18      | 4      |         |        |         |        |         |        |         |        |         |              | 162   | 40            | 24.69                     |
| 1897.....   | 10     | 25      | 24     | 6       | 26     | 3       | 2      | 9       | 22     | 218     | 316    | 66      | 7      |         |        |         |        |         |        |         |        |         |              | 107   | 24            | 22.42                     |
| 1898.....   | 13     | 311     | 415    | 28      | 45     | 34      | 18     | 414     | 423    | 312     | 925    | 115     | 2      |         |        |         |        |         |        |         |        |         |              | 163   | 39            | 23.92                     |
| 1899.....   | 2      | 13      | 3      | 14      | 18     | 311     | 212    | 225     | 528    | 921     | 422    | 711     | 7      |         |        |         |        |         |        |         |        |         |              | 150   | 42            | 28.00                     |
| 1900.....   | 2      | 48      | 110    | 52      | 7      | 39      | 86     | 29      | 148    | 266     | 220    | 526     | 8      |         |        |         |        |         |        |         |        |         |              | 213   | 41            | 19.25                     |
| 1901.....   | 8      | 69      | 211    | 67      | 17     | 18      | 14     | 45      | 224    | 529     | 735    | 321     | 9      |         |        |         |        |         |        |         |        |         |              | 168   | 47            | 27.9                      |
| Totals..... | 215    | 75136   | 46145  | 54117   | 46102  | 4997    | 39136  | 51251   | 69368  | 77371   | 97586  | 109406  | 137    |         |        |         |        |         |        |         |        |         |              | 3,052 | 901           | 29.5                      |



The State Board of Health offers to examine the blood of typhoid suspects by the Widal test, but of the 168 cases reported during the year only forty were subjected to the test, thirty-seven of which proved to be positive. In one instance the test was negative first and then positive. In three cases reported as typhoid only a single negative test was reported. There were also forty-seven negative tests reported to this department.

#### DIPHTHERIA.

Besides the cases which were recorded as diphtheria, there were twenty cases of membranous croup and eleven of other forms of laryngitis, all resulting in death, which came to the knowledge of this department. It is probable that most of these cases were really diphtheria, and if reckoned would considerably increase the mortality from that disease. All of the cases of membranous croup were placarded with a *membranous croup* sign and were treated as if contagious. In seven of the cases of membranous croup and in one case of laryngitis a single culture was taken which proved to be negative.

There were reckoned as diphtheria 77 cases in 69 families, in none of which diphtheria bacilli were found. Some of these were doubtless not diphtheria, but the attending physician reported them as diphtheria, and in 64 of the cases no culture was taken for diagnosis. In the other 13 cases cultures were taken which proved to be negative. In four of these there was one negative culture followed by death; in six instances there were two negative cultures; in two instances three negative cultures (in one of these three negatives from both throat and nose), and in one instance there were five negative cultures. There was, however, very good evidence that all these 13 cases were true diphtheria. Of the 64 cases in which the physician did not take an early culture, in ten the child was very sick when the physician was called, so that he did not consider it wise to disturb the patient unnecessarily. In all of these the patient died.

There were 45 other cases in which the physician did not consider it necessary to take a culture for diagnosis, but in these cases or in their families diphtheria bacilli were afterwards found. There were thus in all 109 cases of diphtheria in which the attending physician did not avail himself of the aid of bacteriology in making his diagnosis. This was 19 per cent. of all cases. Of the 20 cases of membranous croup the physician did not take a primary culture in thirteen.

There were in the families where diphtheria bacilli were found a number of persons who were sick with the symptoms of the disease, but yet in whom no diphtheria bacilli were found, or were not found on the first examination. In ten instances there were two successive negatives although there were other cases known to be diphtheria in the family, and under the same circumstances there were five instances in which one negative only was obtained. No subsequent

cultures were taken from the above cases, but they were all doubtless true diphtheria. There were also four instances in which two negatives were followed by a positive, and 15 instances in which a single negative was followed by a positive. All of the cultures referred to in this paragraph were for diagnosis and taken early in the disease.

In 1901 there were examined by the State, city, and hospital laboratories 7,261 cultures. Of these 1,834 were taken for scientific purposes, and the remainder were taken in the ordinary course of department work. Forty-three were scarlet fever cases, of which two, one a hospital case, were positive.

The following table shows the number and percentage of persons of different ages exposed to diphtheria who contracted it, and the number who did not. This table includes both the Klebs-Loeffler diphtheria and clinical diphtheria. When I began to collect these facts in 1889, the inspector was not careful to obtain the age in every case, so that until 1890 only a portion of the cases are contained in the table, and it was only since 1893 that the facts in regard to all the adults in the family were obtained. The number exposed means all the members of the family where the disease occurred. Cases in public institutions are not included in this table:

*Diphtheria.*

| AGES.         | CASES.   |          |     |       |       |       |       |       |       |        | NUMBER EXPOSED,<br>INCLUDING CASES. |          |      |       |       |       |       |       |       |        | Ratio of cases to<br>number exposed. |
|---------------|----------|----------|-----|-------|-------|-------|-------|-------|-------|--------|-------------------------------------|----------|------|-------|-------|-------|-------|-------|-------|--------|--------------------------------------|
|               | 1889-90. | 1891-95. |     | 1896. | 1897. | 1898. | 1899. | 1900. | 1901. | Total. | 1889-90.                            | 1891-95. |      | 1896. | 1897. | 1898. | 1899. | 1900. | 1901. | Total. |                                      |
| Under 1 year. | 13       | 29       | 17  | 15    | 6     | 7     | 1     | 13    | 101   | 59     | 130                                 | 91       | 67   | 31    | 31    | 32    | 60    | 501   | 20.1  |        |                                      |
| 1 "           | 24       | 43       | 52  | 31    | 17    | 9     | 22    | 38    | 236   | 43     | 114                                 | 97       | 36   | 44    | 21    | 49    | 67    | 471   | 50.1  |        |                                      |
| 2 years.      | 52       | 90       | 64  | 42    | 26    | 22    | 27    | 36    | 359   | 74     | 156                                 | 108      | 39   | 38    | 29    | 50    | 72    | 566   | 63.4  |        |                                      |
| 3 "           | 44       | 103      | 68  | 44    | 19    | 21    | 40    | 48    | 387   | 76     | 164                                 | 110      | 31   | 36    | 32    | 71    | 80    | 600   | 64.5  |        |                                      |
| 4 "           | 47       | 103      | 82  | 54    | 33    | 19    | 23    | 49    | 410   | 71     | 168                                 | 131      | 42   | 57    | 32    | 47    | 90    | 638   | 64.2  |        |                                      |
| 5 "           | 48       | 91       | 72  | 67    | 30    | 10    | 31    | 62    | 411   | 75     | 179                                 | 132      | 31   | 46    | 27    | 62    | 101   | 653   | 62.9  |        |                                      |
| 6 "           | 42       | 72       | 61  | 58    | 25    | 16    | 33    | 52    | 359   | 68     | 151                                 | 105      | 42   | 44    | 32    | 61    | 95    | 598   | 60.0  |        |                                      |
| 7 "           | 31       | 70       | 63  | 43    | 10    | 13    | 24    | 41    | 295   | 69     | 134                                 | 125      | 37   | 35    | 25    | 46    | 90    | 561   | 52.5  |        |                                      |
| 8 "           | 33       | 65       | 60  | 37    | 18    | 7     | 16    | 30    | 266   | 58     | 141                                 | 121      | 48   | 36    | 17    | 39    | 64    | 524   | 50.7  |        |                                      |
| 9 "           | 23       | 41       | 44  | 31    | 8     | 4     | 18    | 28    | 197   | 52     | 109                                 | 89       | 36   | 28    | 15    | 36    | 74    | 439   | 44.8  |        |                                      |
| 10 "          | 26       | 39       | 35  | 24    | 12    | 8     | 14    | 18    | 176   | 49     | 101                                 | 79       | 38   | 35    | 19    | 44    | 70    | 435   | 40.4  |        |                                      |
| 11 "          | 17       | 27       | 41  | 21    | 11    | 5     | 12    | 23    | 157   | 39     | 76                                  | 85       | 24   | 25    | 9     | 28    | 52    | 338   | 46.4  |        |                                      |
| 12 "          | 27       | 43       | 20  | 19    | 13    | 3     | 11    | 17    | 153   | 53     | 96                                  | 65       | 33   | 33    | 21    | 38    | 61    | 400   | 38.2  |        |                                      |
| 13 "          | 8        | 21       | 24  | 15    | 10    | 2     | 3     | 7     | 90    | 28     | 68                                  | 66       | 34   | 22    | 10    | 18    | 33    | 279   | 32.2  |        |                                      |
| 14 "          | 11       | 15       | 16  | 11    | 3     | 2     | 5     | 6     | 69    | 33     | 49                                  | 68       | 23   | 18    | 14    | 21    | 31    | 257   | 26.8  |        |                                      |
| 15 "          | 6        | 12       | 10  | 7     | 5     | 3     | 4     | 5     | 52    | 17     | 60                                  | 49       | 31   | 20    | 16    | 15    | 28    | 236   | 22.0  |        |                                      |
| 16 "          | 11       | 7        | 8   | 5     | 4     | 4     | 2     | 5     | 46    | 30     | 51                                  | 47       | 19   | 19    | 11    | 17    | 31    | 225   | 20.4  |        |                                      |
| 17 "          | 5        | 18       | 11  | 11    | 2     | 4     | 6     | 6     | 63    | 12     | 48                                  | 43       | 25   | 12    | 7     | 21    | 23    | 191   | 32.9  |        |                                      |
| 18 "          | 7        | 10       | 2   | 3     | 3     | 3     | 1     | 2     | 31    | 14     | 41                                  | 38       | 16   | 20    | 10    | 13    | 25    | 177   | 17.5  |        |                                      |
| 19 "          | 2        | 7        | 10  | 8     | 0     | 0     | 2     | 1     | 30    | 8      | 30                                  | 37       | 18   | 7     | 7     | 16    | 18    | 141   | 21.2  |        |                                      |
| 20 "          | 4        | 8        | 11  | 1     | 0     | 4     | 4     | 6     | 38    | 9      | 22                                  | 41       | 14   | 3     | 6     | 17    | 19    | 131   | 29.9  |        |                                      |
| Adults.....   | 85       | 159      | 97  | 78    | 35    | 23    | 45    | 81    | 603   | 752    | 1286                                | 1386     | 980  | 572   | 369   | 644   | 1116  | 7105  | 8.4   |        |                                      |
| Totals.....   | 566      | 1073     | 868 | 625   | 290   | 189   | 344   | 574   | 4529  | 1689   | 3374                                | 3113     | 1664 | 1181  | 760   | 1385  | 2300  | 15466 | 29.2  |        |                                      |

On December 29, 1899, a case of croup was reported from the St. Vincent Asylum. This proved to be diphtheria. The disease continued to appear in the institution from time to time during 1900, and the vigorous but futile efforts that were made to free the institution from it are detailed on page 25 of the report of this department for that year. On January 13, 1901, another child was taken sick with diphtheria, was removed to the Rhode Island Hospital and died January 16th. Children were sick on January 29th and February 11th in whom non-

typical diphtheria bacilli were found. On March 15th a more severe case occurred in which typical bacilli were found. This case was moved to the hospital. On April 10th another case occurred which also went to the hospital. The next case June 2d, died June 16th. There were also cases on June 4th and 15th, and cases on August 10th, September 2d, October 1st, October 26th, October 30th, and November 18th, all of which died. Another case occurred early in December and died January 1, 1902.

At the Rhode Island School for the Deaf there were a few mild cases of diphtheria from 1898 to June, 1900. Since that time no case has occurred except a mild sore throat in March, 1901, in which, however, only a typical diphtheria bacilli were found (Wesbrooks C2).

On November 27th there was a case at St. Aloysius Asylum, an assistant in the refectory who had come to the institution only a few days before. She was removed to the hospital and no other cases occurred.

At the Rhode Island Hospital there were a few cases which were promptly isolated, and there was in no instance any extension of the disease. Six of these cases developed in the general wards and were doubtless infected when they entered the hospital. One elevator boy and one nurse in the general wards were attacked, and one nurse in the diphtheria ward and one scarlet fever patient.

During the year 1901 there were four outbreaks of diphtheria in schools which are worthy of note. Three of these were in public schools and one in a private school.

From December 20, 1900, to March 4, 1901, there were 25 cases in the Bourn street school. There were not many at any one time, but they were scattered irregularly over the whole period. Whenever cases of diphtheria were reported from the school all the children in the family were excluded until a negative culture had been obtained from the throat of each. When the families were found to be careless all the children in the house were excluded. If the child had been sick in school, desks, books, etc., were disinfected. Still cases of the disease continued to appear. On February 28th cultures were taken from the throats and noses of 67 children, nearly half of the school. Diphtheria bacilli were found in 26, but they were with one exception of the "barred" or "solid" types. In only one case were granular forms present, and that was a girl who had been kept out two weeks for "tonsilitis." It was then determined to close the school which was done for one month. During this time the rooms and their contents were thoroughly disinfected. No cases developed after the school was re-opened.

During the same period a similar though somewhat smaller outbreak occurred in the Mount Pleasant avenue school, though there were not quite so many cases. Nothing was done here except the ordinary isolation of cases, and after running about as long as that at Bourn street the outbreak subsided.

At Montague street, from October 26, 1901, to December 23d, there were 13 cases. Nothing was done outside of routine work to check the outbreak, but after a time it ceased and no cases have since developed. There is no doubt that the source of the trouble in all three schools was the attendance of children who though well, still harbored virulent diphtheria bacilli. No attempt was, however, made to find them, as former experience had taught me that great opposition would be excited by attempting to isolate well children even if diphtheria germs were found in the throat.

On October 31st a case of diphtheria developed in a child attending a private kindergarten. Six other cases developed in the same school from November 2d to November 5th. The school was then closed for two weeks and thoroughly disinfected with formaldehyde and corrosive sublimate. Two other cases of diphtheria developed October 30th and 31st in the family of A. X., living in the neighborhood, but these children attended another school where there was no diphtheria at the time. Investigation determined the fact that a child of B. X., brother of A. X., and living in the same yard as A. X., but attending the kindergarten above referred to, had been out of school from October 18th to October 23d. The child had a cold in the head and the throat was slightly sore with a very small spot of exudation on one tonsil. The attending physician saw no occasion to take a culture, and did not consider that there were any indications of diphtheria. On November 7th this child and a younger sister were found to have quite a discharge from the nose, and a culture showed that diphtheria bacilli (Wesbrooks' type C.) were present in the throat and nose of both children. Neither of these children were seriously sick and one was not sick at all. Yet it is extremely probable that these children were the source of the school outbreak, and were the means of giving diphtheria to 13 other children, five of whom were seriously sick, and one of whom died. The children of B. X. were kept out of school for some weeks and bacilli were found in their throats and noses as late as November 22d. No other cases developed in the school.

Very few instances occur where diphtheria recurs after negative cultures have been obtained and the placard removed. There were only three such cases last year.

At 199 H——— street, J. N., aged 4, was slightly sick with sore throat November 4th. Her sister, F. N., attended the kindergarten mentioned above. F. N. had a slight sore throat November 7th. Both children showed typical diphtheria bacilli and both had antitoxin. A negative culture from the throat was obtained from all other members of the family except the baby, M. N. Both J. and F. were placed in absolute isolation and none of the granular types of bacilli were found after November 17th. Two successive negative cultures were later obtained in one case and three in the other, and the isolation room was



thoroughly disinfected November 27th. The children were still kept separate from the baby for more than a week. On December 15th the baby had slight sore throat and diphtheria bacilli were found to be present, as they were also in the throats of J., F., and an older child M—y. This state of things continued till well into January, but rarely were bacilli of the granular type present. Finally on January 20th several successive negative cultures were obtained from all the children, isolation ceased and they were allowed to return to school.

On July 18th a case of diphtheria, F. W., occurred at 172 L—— street, and it was learned that two other children, K. W., and R. W., had been sick with sore throats July 4th and 10th. F. W. was removed to the hospital, and after a single throat negative from all members of the family the house was disinfected. On August 8th after a single negative from the nose and two from the throat, F. W. returned from the hospital. On September 3d C. W. was attacked with diphtheria, and diphtheria bacilli were found in his throat, and that of two other members of the family. Only barred types (Wesbrooks' C1) were found. From these cases negatives were obtained October 2d. On December 16th another case developed in E. W.

The following table contains only cases from families in which Klebs-Loeffler bacilli were found. It does not include institution cases:

*Cases from Families where Klebs-Löffler Bacilli were Found.*

| AGES.           | CASES. |       |       |       |       |       |         | NUMBER EXPOSED, INCLUDING CASES. |       |       |       |       |       |         | Ratio of cases to number exposed. |
|-----------------|--------|-------|-------|-------|-------|-------|---------|----------------------------------|-------|-------|-------|-------|-------|---------|-----------------------------------|
|                 | 1896.  | 1897. | 1898. | 1899. | 1900. | 1901. | Totals. | 1896.                            | 1897. | 1898. | 1899. | 1900. | 1901. | Totals. |                                   |
| Under 1 year... | 11     | 10    | 6     | 5     | 1     | 14    | 47      | 66                               | 63    | 31    | 29    | 29    | 48    | 266     | 17.6                              |
| 1 " ..          | 37     | 27    | 17    | 3     | 20    | 28    | 132     | 77                               | 33    | 44    | 10    | 42    | 50    | 256     | 51.5                              |
| 2 years..       | 48     | 36    | 26    | 18    | 25    | 31    | 184     | 91                               | 35    | 38    | 23    | 47    | 56    | 290     | 63.4                              |
| 3 " ..          | 49     | 37    | 19    | 17    | 37    | 39    | 198     | 94                               | 27    | 36    | 26    | 66    | 65    | 314     | 63.0                              |
| 4 " ..          | 61     | 50    | 33    | 15    | 21    | 44    | 224     | 114                              | 38    | 57    | 25    | 45    | 76    | 355     | 63.1                              |
| 5 " ..          | 48     | 62    | 30    | 10    | 29    | 56    | 235     | 113                              | 28    | 46    | 24    | 59    | 86    | 356     | 66.0                              |
| 6 " ..          | 47     | 54    | 25    | 12    | 29    | 37    | 204     | 91                               | 38    | 44    | 24    | 55    | 75    | 327     | 62.3                              |
| 7 " ..          | 47     | 41    | 10    | 12    | 22    | 32    | 164     | 104                              | 29    | 35    | 22    | 41    | 76    | 307     | 53.4                              |
| 8 " ..          | 50     | 36    | 18    | 6     | 14    | 28    | 152     | 102                              | 43    | 36    | 15    | 34    | 57    | 287     | 52.9                              |
| 9 " ..          | 39     | 29    | 8     | 4     | 13    | 26    | 119     | 73                               | 33    | 28    | 12    | 30    | 58    | 234     | 50.8                              |
| 10 " ..         | 30     | 22    | 12    | 8     | 13    | 15    | 100     | 66                               | 35    | 35    | 15    | 39    | 58    | 248     | 40.3                              |
| 11 " ..         | 31     | 16    | 11    | 4     | 12    | 16    | 90      | 79                               | 23    | 25    | 7     | 26    | 41    | 201     | 44.7                              |
| 12 " ..         | 13     | 17    | 13    | 3     | 10    | 14    | 70      | 49                               | 29    | 33    | 18    | 33    | 51    | 213     | 32.8                              |
| 13 " ..         | 19     | 13    | 10    | 2     | 3     | 6     | 53      | 53                               | 30    | 22    | 9     | 17    | 26    | 157     | 33.7                              |
| 14 " ..         | 13     | 11    | 3     | 2     | 4     | 6     | 39      | 59                               | 21    | 18    | 14    | 19    | 25    | 156     | 25.0                              |
| 15 " ..         | 10     | 4     | 5     | 3     | 4     | 5     | 31      | 40                               | 29    | 20    | 12    | 13    | 24    | 138     | 22.4                              |
| 16 " ..         | 8      | 5     | 4     | 3     | 1     | 3     | 24      | 33                               | 16    | 19    | 10    | 15    | 24    | 117     | 20.5                              |
| 17 " ..         | 10     | 9     | 2     | 4     | 6     | 6     | 37      | 32                               | 23    | 12    | 5     | 19    | 18    | 109     | 33.9                              |
| 18 " ..         | 2      | 3     | 3     | 2     | 1     | 2     | 13      | 26                               | 11    | 20    | 7     | 11    | 22    | 97      | 13.4                              |
| 19 " ..         | 8      | 6     | 0     | 0     | 2     | 0     | 16      | 29                               | 13    | 7     | 6     | 15    | 16    | 86      | 18.6                              |
| 20 " ..         | 5      | 1     | 0     | 3     | 4     | 5     | 18      | 31                               | 13    | 3     | 5     | 16    | 15    | 83      | 21.6                              |
| Adults.. .. .   | 75     | 64    | 35    | 18    | 42    | 67    | 301     | 995                              | 862   | 572   | 309   | 588   | 898   | 4,224   | 7.1                               |
| Totals.. .. .   | 661    | 553   | 290   | 154   | 313   | 480   | 2,451   | 2,417                            | 1,472 | 1,181 | 627   | 1,259 | 1,865 | 8,821   | 27.7                              |



The following shows certain facts in the natural history of diphtheria:

|                                                                                                            | 1889-90. | 1891-95. | 1896. | 1897. | 1898. | 1899. | 1900. | 1901. | Totals. |
|------------------------------------------------------------------------------------------------------------|----------|----------|-------|-------|-------|-------|-------|-------|---------|
| Number of families in which there was more than one child.                                                 | 233      | 574      | 433   | 326   | 161   | 107   | 194   | 310   | 2,338   |
| Number of these in which there was more than one case.                                                     | 89       | 179      | 172   | 125   | 57    | 35    | 60    | 104   | 821     |
| Number of children in all the above families                                                               | 894      | 1,614    | 1,690 | 1,262 | 642   | 458   | 756   | 1,138 | 8,454   |
| Number of these children who were attacked.....                                                            | 422      | 750      | 793   | 578   | 287   | 191   | 319   | 470   | 3,810   |
| Number of additional families with children in the same house.....                                         | 97       | 329      | 323   | 254   | 119   | 79    | 131   | 215   | 1,547   |
| Number of children in these families.....                                                                  | 262      | 854      | 898   | 665   | 311   | 199   | 359   | 591   | 4,139   |
| Number of these additional families attacked.....                                                          | 18       | 24       | 30    | 9     | 11    | 2     | 5     | 17    | 116     |
| Number of children in these families who were attacked.....                                                | 25       | 28       | 55    | 26    | 12    | 7     | 6     | 23    | 182     |
| Number of tenements which were disinfected where there were other families with children in the house..... | 23       | 108      | 192   | 188   | 82    | 59    | 80    | 124   | 856     |
| Number of instances of the above where the disease spread to other families in the house.....              | 5        | 10       | 11    | 9     | 11    | 1     | 0     | 1     | 48      |
| Number of well children who were at once removed.....                                                      | 54       | 202      | 141   | 176   | 71    | 57    | 73    | 106   | 880     |
| Number of those who were attacked on their return.....                                                     | 2        | 7        | 0     | 3     | 1     | 0     | 0     | 2     | 15      |

As in previous years the safety of other families in the house is shown to be very great. In only 17 of 215 cases did the disease extend beyond the first family attacked. In all of these cases communication was free between the families. In no case did the disease extend beyond one family where there was any isolation at all. It is the custom in this department not to exclude from school, children in the house, except those of the family in which the disease actually exists. If, however, it is believed that there will be no isolation and that all the children in the house will mingle freely they are all excluded. This, however, is found to be necessary in not more than one-quarter of the cases. But in scarlet fever no children in the house who have not had scarlet fever are allowed

to attend school for a week, and in diphtheria until a negative culture has been obtained from the throat.

During 1901 such permits were given in scarlet fever in 20 families with 47 susceptible children, and in diphtheria in 26 families in which there were 66 susceptible children. During the past six years the figures are for scarlet fever 130 families with 229 children and for diphtheria, 112 families with 348 children. In none of these did the disease develop, which indicates that it is quite safe to permit children in the infected house but not in the infected family, to attend school, except in those cases where manifestly no care is taken.

During the year, 106 well children were sent away from home to avoid the disease. Two were attacked while away and one on its return home, but the child returned while another member of the family was still sick.

Of 94 cases which went to the hospital from houses where there were children left behind, there was no instance in which these well children were attacked on the return of the patient from the hospital. Two negative cultures from the throat and nose are required before discharge from the hospital.

The following table shows the number of persons exposed to diphtheria who had diphtheria bacilli in their throats, and who were not sick, and also the number exposed in the same families who did not have bacilli in their throats and who were not sick. This table may profitably be compared with the table on page 92, which shows the number of exposed persons who were sick:

*Well Persons in Families where there was Diphtheria whose Throats were Examined for Diphtheria.*

| AGES.            | PERSONS EXAMINED. |       |       |       |       |         | NUMBER IN WHICH BACILLI WERE FOUND |       |       |       |       |         | Percentage. |
|------------------|-------------------|-------|-------|-------|-------|---------|------------------------------------|-------|-------|-------|-------|---------|-------------|
|                  | 1897.             | 1898. | 1899. | 1900. | 1901. | Totals. | 1897.                              | 1898. | 1899. | 1900. | 1901. | Totals. |             |
| Under 1 year.... | 36                | 3     | 18    | 27    | 35    | 119     | 6                                  | ...   | 2     | 4     | 5     | 17      | 14.2        |
| 1 " ....         | 34                | 11    | 14    | 27    | 26    | 112     | 5                                  | ...   | 1     | 4     | 5     | 15      | 13.3        |
| 2 years....      | 32                | 3     | 12    | 23    | 27    | 97      | 11                                 | ...   | 2     | 6     | 4     | 23      | 23.7        |
| 3 " ....         | 28                | 7     | 16    | 32    | 29    | 112     | 9                                  | 4     | 1     | 7     | 4     | 25      | 22.3        |
| 4 " ....         | 34                | 9     | 15    | 21    | 37    | 116     | 10                                 | 5     | 7     | 5     | 4     | 31      | 26.7        |
| 5 " ....         | 29                | 8     | 16    | 33    | 34    | 120     | 4                                  | 3     | 1     | 6     | 3     | 17      | 14.1        |
| 6 " ....         | 43                | 7     | 17    | 30    | 40    | 137     | 15                                 | 4     | 6     | 8     | 9     | 42      | 30.6        |
| 7 " ....         | 36                | 10    | 18    | 23    | 43    | 130     | 8                                  | 2     | 5     | 4     | 11    | 30      | 23.1        |
| 8 " ....         | 41                | 6     | 11    | 29    | 32    | 119     | 8                                  | 3     | 3     | 4     | 7     | 25      | 21.0        |
| 9 " ....         | 34                | 10    | 10    | 21    | 38    | 113     | 5                                  | 6     | 1     | 8     | 3     | 23      | 20.3        |
| 10 " ....        | 37                | 9     | 15    | 35    | 43    | 139     | 9                                  | 3     | 2     | 8     | 4     | 26      | 18.7        |
| 11 " ....        | 20                | 11    | 6     | 16    | 26    | 79      | 2                                  | 2     | ...   | 3     | 4     | 11      | 13.9        |
| 12 " ....        | 29                | 9     | 16    | 32    | 41    | 127     | 7                                  | 4     | 2     | 8     | 7     | 28      | 22.0        |
| 13 " ....        | 34                | 5     | 6     | 16    | 25    | 86      | 5                                  | 4     | 1     | 3     | 2     | 15      | 17.4        |
| 14 " ....        | 21                | 10    | 13    | 20    | 24    | 88      | 3                                  | 3     | 4     | 2     | 1     | 13      | 14.7        |
| 15 " ....        | 23                | 2     | 14    | 10    | 21    | 70      | 2                                  | 1     | ...   | 1     | 1     | 5       | 7.1         |
| 16 " ....        | 12                | 4     | 7     | 16    | 25    | 64      | 1                                  | ...   | 2     | 1     | 5     | 9       | 14.0        |
| 17 " ....        | 16                | 5     | 4     | 17    | 15    | 57      | 3                                  | 3     | 1     | 1     | 1     | 9       | 15.7        |
| 18 " ....        | 13                | 5     | 8     | 11    | 20    | 57      | 1                                  | 1     | ...   | 1     | 3     | 6       | 10.5        |
| 19 " ....        | 9                 | 4     | 7     | 13    | 12    | 45      | 2                                  | 1     | ...   | ...   | 1     | 4       | 8.8         |
| 20 " ....        | 10                | 1     | 1     | 12    | 10    | 34      | ...                                | ...   | ...   | 2     | 2     | 4       | 11.7        |
| Adults.....      | 653               | 159   | 336   | 562   | 795   | 2,505   | 74                                 | 33    | 46    | 64    | 60    | 277     | 11.0        |
| Totals.....      | 1,224             | 298   | 580   | 1,026 | 1,398 | 4,526   | 190                                | 82    | 87    | 150   | 146   | 655     | 14.4        |

During the year 1901 the attempt was made, as it was in 1895, 1896, 1899, and 1900, to secure data in regard to the curative value of antitoxin as used in cases of diphtheria in this city.

The following shows the fatality in antitoxin and non-antitoxin cases in different classes of persons in 1900:

|                                                   | ANTITOXIN GIVEN. |         |           | NO ANTITOXIN GIVEN. |         |           |
|---------------------------------------------------|------------------|---------|-----------|---------------------|---------|-----------|
|                                                   | Cases.           | Deaths. | Per cent. | Cases.              | Deaths. | Per cent. |
| Hospital cases.....                               | 108              | 19      | 17.5      | 4                   | 1       | 25.0      |
| Private cases, diphtheria bacilli present.        | 246              | 24      | 9.7       | 147                 | 14      | 9.5       |
| Private cases, no diphtheria bacilli present..... | 65               | 5       | 7.6       | 29                  | 5       | 17.2      |
| Membranous Croup.....                             | 8                | 8       | 100.00    | 12                  | 12      | 100.00    |
| Totals.....                                       | 427              | 56      | 13.1      | 192                 | 32      | 16.6      |

In interpreting the above it must be borne in mind that physicians in this city are not inclined to give antitoxin unless the case appears to be somewhat severe.

The following table gives the results of my observations during the past fourteen years concerning certain points in the etiology and prevention of scarlet fever. This table for the years previous to 1892 does not include all the families and cases:

|                                                                                | 1887-90. | 1891-95. | 1896. | 1897. | 1898. | 1899. | 1900. | 1901. | Totals. |
|--------------------------------------------------------------------------------|----------|----------|-------|-------|-------|-------|-------|-------|---------|
| Number of families in which there was more than one susceptible child.....     | 615      | 1,600    | 305   | 174   | 178   | 267   | 215   | 171   | 3,525   |
| Number of these in which there was a second case.....                          | 334      | 711      | 128   | 58    | 68    | 90    | 72    | 51    | 1,512   |
| Number of susceptible children in all the above families.....                  | 2,270    | 5,571    | 1,032 | 644   | 655   | 992   | 758   | 573   | 12,495  |
| Number of these children who were attacked.....                                | 1,194    | 2,935    | 526   | 318   | 322   | 477   | 401   | 259   | 6,432   |
| Number of additional families with susceptible children in the same house..... | 273      | 817      | 197   | 132   | 113   | 206   | 174   | 122   | 2,034   |
| Number of susceptible children in these families.....                          | 799      | 2,259    | 545   | 340   | 295   | 628   | 412   | 310   | 5,588   |
| Number of these additional families attacked.....                              | 45       | 94       | 16    | 6     | 7     | 5     | 7     | 4     | 184     |
| Number of children in these families who were attacked.....                    | 81       | 157      | 41    | 9     | 12    | 9     | 14    | 5     | 328     |

|                                                                                                             | 1897-90. | 1891-95. | 1896. | 1897. | 1898. | 1899. | 1900. | 1901. | Totals. |
|-------------------------------------------------------------------------------------------------------------|----------|----------|-------|-------|-------|-------|-------|-------|---------|
| Number of tenements disinfected where there were other families with susceptible children in the house..... | 119      | 374      | 139   | 86    | 84    | 137   | 115   | 84    | 1,138   |
| Number of above where the disease spread to other families in the house...                                  | 10       | 9        | 10    | 0     | 7     | 0     | 2     | 0     | 38      |
| Number of susceptible children who were at once removed.....                                                | 60       | 374      | 174   | 106   | 82    | 134   | 76    | 83    | 1,089   |
| Number of these who were attacked on their return.....                                                      | 4        | 20       | 5     | 0     | 4     | 0     | 4     | 1     | 38      |
| Number of children who were exposed and who had previously had scarlet fever.....                           | ...      | 278      | 112   | 62    | 63    | 73    | 55    | 68    | 711     |
| Number of these who were attacked a second time.....                                                        | ...      | 40       | 20    | 3     | 12    | 10    | 4     | 4     | 93      |
| Number of adults who were exposed and who had previously had scarlet fever...                               | ...      | 541      | 120   | 79    | 87    | 155   | 184   | 112   | 1,278   |
| Number of these who were attacked a second time.....                                                        | ...      | 10       | 1     | 0     | 1     | 0     | 3     | 1     | 16      |

Of the 83 well children who were removed from families where there was scarlet fever, two were attacked on their return. In one case the child was away only five days and the first patient was still sick. The second case was attacked eleven days after its return.

In two instances children who were thus removed were taken sick while away, one on the ninth and one on the tenth day.

Twenty-four cases of scarlet fever were removed to the hospital from families in which there were thirty-seven other children. Of the children left behind, one was taken sick in one day and one in three days, and after that these families remained free from the disease.

*Scarlet Fever.*

| AGES.         | CASES.   |          |       |       |       |       |       |       |        | NUMBER EXPOSED,<br>INCLUDING CASES. |          |       |       |       |       |       |       |        | Ratio of cases to<br>number exposed. |
|---------------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------------------------------------|----------|-------|-------|-------|-------|-------|-------|--------|--------------------------------------|
|               | 1887-90. | 1891-95. | 1896. | 1897. | 1898. | 1899. | 1900. | 1901. | Total. | 1887-90.                            | 1891-95. | 1896. | 1897. | 1898. | 1899. | 1900. | 1901. | Total. |                                      |
| Under 1 year. | 29       | 117      | 10    | 11    | 7     | 8     | 3     | 4     | 189    | 117                                 | 425      | 49    | 24    | 38    | 61    | 46    | 35    | 795    | 23.7                                 |
| 1 "           | 39       | 160      | 34    | 15    | 9     | 21    | 20    | 16    | 314    | 93                                  | 362      | 34    | 19    | 37    | 57    | 42    | 42    | 686    | 45.7                                 |
| 2 years.      | 108      | 257      | 43    | 24    | 29    | 30    | 41    | 30    | 562    | 193                                 | 478      | 32    | 23    | 44    | 54    | 74    | 42    | 940    | 59.7                                 |
| 3 "           | 108      | 320      | 54    | 32    | 31    | 41    | 32    | 39    | 657    | 190                                 | 554      | 25    | 19    | 46    | 76    | 62    | 61    | 1033   | 63.6                                 |
| 4 "           | 116      | 309      | 59    | 35    | 25    | 60    | 42    | 27    | 673    | 186                                 | 518      | 26    | 16    | 42    | 87    | 58    | 41    | 974    | 69.0                                 |
| 5 "           | 91       | 383      | 61    | 32    | 41    | 61    | 42    | 29    | 740    | 197                                 | 621      | 24    | 13    | 61    | 88    | 72    | 46    | 1122   | 65.9                                 |
| 6 "           | 113      | 348      | 52    | 30    | 32    | 49    | 51    | 30    | 705    | 188                                 | 559      | 27    | 12    | 47    | 78    | 75    | 54    | 1040   | 67.7                                 |
| 7 "           | 103      | 326      | 53    | 32    | 32    | 47    | 32    | 22    | 647    | 169                                 | 581      | 23    | 15    | 48    | 72    | 57    | 41    | 1006   | 64.3                                 |
| 8 "           | 83       | 223      | 43    | 31    | 17    | 30    | 30    | 26    | 483    | 168                                 | 436      | 30    | 10    | 36    | 53    | 52    | 42    | 827    | 58.4                                 |
| 9 "           | 74       | 194      | 27    | 18    | 19    | 31    | 22    | 14    | 399    | 166                                 | 380      | 21    | 17    | 39    | 53    | 44    | 25    | 745    | 53.5                                 |
| 10 "          | 51       | 157      | 33    | 14    | 15    | 17    | 15    | 13    | 315    | 96                                  | 339      | 19    | 15    | 38    | 46    | 29    | 40    | 622    | 50.6                                 |
| 11 "          | 43       | 113      | 23    | 4     | 10    | 22    | 11    | 11    | 237    | 104                                 | 252      | 19    | 16    | 26    | 49    | 22    | 20    | 508    | 46.6                                 |
| 12 "          | 34       | 104      | 23    | 8     | 8     | 10    | 13    | 10    | 210    | 104                                 | 266      | 22    | 13    | 21    | 32    | 22    | 23    | 503    | 41.7                                 |
| 13 "          | 33       | 69       | 7     | 6     | 12    | 5     | 8     | 6     | 146    | 83                                  | 199      | 24    | 14    | 23    | 35    | 22    | 15    | 415    | 35.1                                 |
| 14 "          | 21       | 67       | 11    | 4     | 8     | 8     | 5     | 7     | 131    | 76                                  | 191      | 23    | 19    | 23    | 35    | 15    | 18    | 400    | 32.7                                 |
| 15 "          | 18       | 41       | 8     | 2     | 1     | 6     | 3     | 4     | 83     | 67                                  | 142      | 13    | 13    | 12    | 26    | 13    | 11    | 297    | 27.9                                 |
| 16 "          | 12       | 33       | 8     | 4     | 1     | 2     | 5     | 5     | 70     | 47                                  | 139      | 20    | 16    | 14    | 18    | 15    | 13    | 282    | 24.8                                 |
| 17 "          | 8        | 28       | 5     | 3     | 1     | 5     | 5     | 4     | 59     | 33                                  | 104      | 15    | 18    | 12    | 19    | 15    | 9     | 225    | 26.1                                 |
| 18 "          | 4        | 19       | 3     | ...   | 5     | 3     | 1     | 1     | 36     | 10                                  | 98       | 19    | 14    | 15    | 17    | 7     | 11    | 191    | 18.8                                 |
| 19 "          | 6        | 17       | 3     | 5     | ...   | 4     | ...   | ...   | 35     | 16                                  | 86       | 22    | 12    | 10    | 17    | 13    | 2     | 178    | 19.6                                 |
| 20 "          | 8        | 17       | ...   | ...   | 2     | 2     | 2     | 2     | 33     | 18                                  | 76       | 23    | 8     | 12    | 11    | 6     | 10    | 164    | 20.1                                 |
| Adults.....   | 42       | 169      | 23    | 13    | 15    | 15    | 18    | 19    | 314    | 106                                 | 2952     | 838   | 506   | 510   | 792   | 566   | 473   | 6743   | 4.6                                  |
| Totals....    | 1144     | 3471     | 583   | 323   | 320   | 477   | 401   | 319   | 7038   | 2427                                | 9758     | 1348  | 832   | 1154  | 1776  | 1327  | 1074  | 19696  | 35.7                                 |

Besides the above there were several cases in institutions.

There were two cases in the St. Vincent Asylum in April. Both were contracted outside the asylum and were removed to the Rhode Island Hospital. No other cases occurred.

At the St. Aloysius Asylum there was a case in each of the following months,



July, August, September, October, and December. The origin of these cases was not known. They were all removed to the hospital as soon as recognized.

At the Butler Hospital one of the attendants was taken sick in February and another in November. There was no known exposure. Both went to the hospital.

#### SMALL-POX.

During the year small-pox appeared at several points in Rhode Island, but Providence fortunately escaped until the latter part of May.

On Memorial day, late in the afternoon, a case was reported by Dr. J. A. O'Keefe at 27 Arthur avenue. The patient was an Italian boy named Giovanni Vendetuoli, 15 years old. He was a pupil at the Atwell's avenue school. He claimed to have been vaccinated in Italy and to have obtained from Dr. Leonard, city vaccinator, a permit to attend school. Both statements were undoubtedly true, but no satisfactory cicatrix was to be found. He began to feel ill in school on May 24th, and went home at noon. The eruption probably appeared May 26th. The patient was allowed to remain in the house over night and the house was guarded, not so much on the patient's account, as to retain the other inmates so that they might be examined and vaccinated by daylight. The next morning the patient was removed to the hospital at Field's Point which meanwhile had been made ready for him. Although a police guard was placed at both front and rear of the house three persons managed to get away, though they were all afterwards discovered, and one later developed small-pox. It has never been the policy of this department to keep suspects (persons exposed in the house and family) in confinement, but to let them go about their business and keep them under daily observation for sixteen days or more. The futility of trying to keep a large number of persons confined in a tenement house was well shown in the brief attempt made in this case. There were between 50 and 60 persons in this house, and all of them were revaccinated on the evening of May 30 or the next morning. The members of the infected family were again vaccinated a few days later. The sick-room was disinfected by burning the bedding and steaming the clothing. All the clothing of the family which was at all likely to have been exposed was also steamed. The sick-room and furniture were well sprayed with corrosive sublimate and also the stairways. Formalin was sprayed on floor, walls, and bedding in other bed-rooms and the kitchen, and the rooms were closed for the night. The floor and woodwork and furniture were also washed with corrosive sublimate. The patient suffered quite a severe attack of small-pox, and during convalescence developed a large number of superficial abscesses in all parts of his body which delayed his recovery so that he was not discharged from the hospital until July 24th. The inmates of the house were visited daily



for sixteen days. The only other case which occurred in this house was evidently contracted before the first case was removed.

On June 6th Dr. J. W. Berton reported a case at 151 Cedar street, just around the corner from 27 Arthur avenue. All communication with the Arthur avenue case was denied, but persons living at 27 Arthur avenue are known to have visited the family on Cedar street where the disease developed. The patient Maria Di Luglio, was married, 33 years old, and had been vaccinated in infancy. She had given birth to a child, Angelo, June 3. On that day she had high fever, and the midwife wished to call a physician, but the family declined. On June 5th a rash appeared. The patient was removed to the hospital together with the infant Angelo, and both were vaccinated. The disease took on the hemorrhagic form and the patient died June 8th, and was buried the same day in St. Patrick's cemetery by the officials of this department. She was visited at the hospital by her husband and a clergyman who put on outside garments before entering the building, and otherwise took the same precautions as I do in my visits. Vaccination took on the infant, and it did not have the disease, and was sent to the State Almshouse June 28th. The same methods of disinfection, vaccination, and observation of suspects was followed as at 27 Arthur avenue, and no other cases developed. There were two unvaccinated children in the family who were successfully vaccinated the day their mother was removed, and who as soon as the vaccination took were sent to St. Vincent's Asylum.

On May 28th, Pasquale Machero, 28 years old, was admitted to the general ward A, Rhode Island Hospital. He had had pneumonia a month previous and was supposed to have muscular rheumatism when admitted. On May 30th a few points of eruption appeared scattered over his body and he was thought by the visiting physician, Dr. Herbert Terry, to have small-pox. Several others, however, including both city and State health officials did not consider it small-pox, but chicken-pox. He was isolated on the hospital grounds in the Russell ward. As the history of the next case showed he probably had small-pox. He was found to be a friend of the first case mentioned. He was vaccinated on June 14th, but it did not take.

Bernard Hudson, 46 years old, was admitted to ward A, Rhode Island Hospital, May 5th, with rheumatism. On June 12th a profuse eruption appeared and he was at once removed to the Russell ward, and the next day proved to have small-pox. It now seemed entirely likely that he contracted the disease from the preceding case, Pasquale Machero, who had been in the same ward with him for two days, just thirteen days before the eruption appeared on Hudson. Both patients were removed to the Field's Point hospital on June 14th. Hudson was vaccinated in infancy and again June 13th. The latter did not take. He

died June 21st and was buried the same day in the North Burial Ground by the health department officials.

Miss X——, a nurse in the Rhode Island Hospital, was detailed to care for Machero the supposed chicken-pox patient. She was not vaccinated until June 15th the day after it was decided that Machero had small-pox. On June 16th she had the initial symptoms of small-pox, and afterwards developed a few papules which became pustules. The vaccination was successful, but Miss D—— was thought by her medical attendants to have had a slight attack of small-pox at the same time. She remained in the Russell ward until her discharge July 3d.

Ward A and the Russell ward at the Rhode Island Hospital were disinfected by burning sulphur, spraying, formalin and washing with bi-chloride. All the other patients in ward A were vaccinated, and also all physicans, nurses, and attendants. No visitors were allowed in the hospital, but patients were admitted as usual. No other cases developed in the hospital.

On June 14th, Giovanni Vendetuoli, a cousin of the first case, was seen by Dr. Cerbo, who reported the case as small-pox. He lived at 27 Arthur avenue where the first case lived, and was one of the three who escaped. He returned to another family in the same house some days later. When seen June 14th he had a scattering small-pox eruption of some day's standing. He was removed to the hospital June 14th, and was discharged July 5th. He had been vaccinated in infancy, and again June 14th. The latter did not take.

On June 14th it was rumored that a man living at 11 Knight street was sick, as some of the neighbors suspected, with small-pox, but no trace could be found of him. Later on it developed that he was Luigi Balestra, who worked at the Crompton Loom Works. He was sick and feverish and was seen by Dr. V. L. Fitzgerald June 11th, 12th, and 13th, at which time there was no eruption. On June 14th Balestra went to New York by train and stated that he stayed with a sister in Brooklyn until June 20th. It was impossible to locate the sister in Brooklyn or to learn much of his history while there. He returned to Providence by steamer June 21st and stayed that night in bar-rooms. On June 22d he went to Dr. Fitzgerald who reported the case as small-pox. He had a fairly profuse eruption which appeared to be of about a week's duration. He was vaccinated in infancy and again during desquamation. The latter did not take. He was discharged July 6th.

On June 15th when search was unsuccessfully made for Balestra, his wife was found at their home and she and her two little children were successfully vaccinated. On June 26th she was found to have a very few pustules which appeared to be small-pox of a few days' duration. She and her children were removed to the hospital. Neither of the children had small-pox. They were discharged

July 20th. The Balestras were found to be acquainted with the other Italian patients.

On June 24th, Dr. Lace, the health officer of Burrillville, brought into the office a man 22 years old named Louis Ledoux. Dr. Lace found him on a train coming in from Georgiaville, and, recognizing in him a case of small-pox, thought the best thing to do was to bring him to this office. The eruption was in the pustular stage, and the patient was removed to the hospital. He was not sick in bed at any time and was discharged July 17th. It was not learned where the disease was contracted. The patient had never been vaccinated. He was, however, vaccinated during convalescence, but it did not take. Correspondence was entered into with the Smithfield authorities, but although Ledoux had lived in that town for a number of years they refused to pay any board or bear any of the expense of caring for him. The car on which Ledoux came to Providence was disinfected with formalin spray and bi-chloride, and the train hands were vaccinated. No other case developed from this.

On July 1st Dr. P. Williams reported a case of small-pox at the stable owned by S. S. Atwell at Field's Point. The man's name was Asa Witter, aged 56 years. He was at once removed to the hospital, and the stable was disinfected by spraying all parts of it with either formalin or corrosive sublimate 1 to 1,000. Only a few persons had been exposed, and these were at once vaccinated, and no other case occurred. The patient was discharged cured August 12th.

There were two important points about this case. In the first place he probably contracted the disease at Field's Point. The small-pox hospital is situated at Field's Point on a bluff about 600 feet from the clam-house, where the guests are entertained during the summer months. The wharf is perhaps 300 feet from the hospital and a much used path runs along the foot of the bank about 200 feet from the hospital. There are fifteen or twenty summer cottages from 500 to 1,000 feet from the hospital, and a much used road about 450 feet distant. I have never, however, believed that there was any danger to the public who are thus brought into what might be considered close proximity to small-pox, provided, of course, that the public kept away from the hospital, and its inmates had no direct communication with outsiders. Contrary to the belief of many I have never thought there was any danger of the poison of small-pox being carried any distance in the open air. This view is substantiated by our experience at Field's Point. During several summers the hospital has been occupied and hundreds and sometimes thousands of persons have passed daily within a few hundred feet of it, and this too, when convalescents were out of doors upon the grounds, and as was stated above, a considerable number of cottagers live within a short distance. Among all these people no case of small-pox has ever occurred until the one now under consideration. Asa Witter worked in the stable about 600 feet

from the hospital. He had broken his arm about three weeks previous to his attack and had had no opportunity for exposure other than at Field's Point. After his arm was broken he could, of course, do very little work, but he visited daily the pig-pen which is about seventy-five feet from the hospital. He had previously had small-pox and believing himself immune and being acquainted with the attendants at the hospital there is little doubt that to while away time which hung heavy on his hands, he made one or more visits to that place.\*

The second fact of interest is that this was a second attack of the disease. Asa Witter had two brothers who were physicians, as was also his father. One of the brothers, W. F. Witter, writes me that when Asa was about seventeen or eighteen years old an older brother who was then practicing medicine, contracted small-pox from cases he was attending and came home sick, and that he, W. F. Witter, and Asa, both contracted it from him. Asa was not, however, very sick.

In August a child stopped in Providence for a few days on the way from Nova Scotia to Cleveland. The day after leaving here he was taken sick, and, on arrival at Cleveland, was found to have small-pox. Every one who had been in contact with him in Providence was vaccinated and no other cases developed here, though two did in Cleveland. The case was evidently contracted on the Nova Scotia steamer, which was afterwards learned to have had a case of the disease on board at that time.

From the time of closing the hospital August 12th, no case of small-pox was reported in the city until December 23d. Early in the morning on that date one of the inmates of Marks' lodging house at the corner of South Main and Crawford streets, reported to the policeman on the beat that there was a case of small-pox in the house. The police surgeon was at once notified, and he, in turn, notified this department. The case proved to be small-pox and was removed to the hospital at about 2 P. M. The delay was occasioned by the time needed to turn on the water at the hospital, overhaul the plumbing, heat the building, get the nurse and assistant and purchase provisions. The patient, Louis Bramble, an American, had been in Boston, or its vicinity, from December 3d to December 10th, and probably contracted the disease there as there was much small-pox in Boston at the time. He was taken sick December 17th in the evening, and stated that he first noticed an eruption December 21st. When seen, December 23d, the eruption was papular, but beginning to vesiculate. It was discrete, but fairly copious. He was thirty-nine years old and said that he had never been vaccinated, but a small cicatrix at the insertion of the left deltoid may have represented an early vaccination. This man had remained in the lodging house from December 17th to December 23d, and during all this time the house was

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\*It has since been learned from unquestionable evidence that this was the fact.



full of lodgers. On the night of the 22d there were probably 150 there. About half of these went away before a guard was placed. The chief of police promptly placed a guard on this and all the other lodging houses, and they were all visited and the inmates vaccinated. This inspection and vaccination was repeated in the evening, and probably most of those exposed were vaccinated. The lodging houses were then inspected nightly during the larger part of the winter.

After the patient was removed the bedding he used was burned, and the room and stairways sprayed and washed with formalin and corrosive sublimate.

The cost of caring for the ten patients during the summer outbreak was \$1,041.03. Besides this expense there was spent about \$1,500 for vaccinating, making the total cost of the outbreak about \$2,500.

#### THE TEACHING OF CLEANLINESS.

It has for sometime been apparent to me that the chief factor in the spread of diphtheria, scarlet fever, small-pox, and other communicable diseases, is the mild unrecognized cases. These cases are much more common than is generally supposed, and many times the persons do not appear in the least sick, though they are dangerously infected and may give the disease to others. It is impossible to find more than a small proportion of these cases, and, when they are found, it is very difficult, if not impossible, to keep them in isolation. If this danger from unrecognized cases is as great as I believe it is, it is important to know how it may be guarded against. In diphtheria it is well established that the bacteria which cause the disease are contained in the secretions of the mouth and nose. It is extremely probable that the same is true of scarlet fever, measles, influenza, and small-pox. While in the latter stages of scarlet fever, measles, and small-pox, the virus is doubtless given off from the surface of the skin, in the early stages before the eruption appears, and before the disease is recognized, the danger lies chiefly in the secretions of the mouth and nose. Now it is quite certain that the germs of these diseases are not carried through the air from the breath of one person to another, but it is through direct contact as in kissing, or through the medium of pencils, tumblers, spoons, pins, money, handkerchiefs, moistened fingers, etc., that the saliva and nasal secretions are carried from one person to another. Personal hygiene as well as common decency requires that every one should avoid those habits which tend to convey the secretions from mouth to mouth. It seems, therefore, a useful work for public hygiene to teach the facts and principles here involved. This matter was last year brought up at a meeting of the Massachusetts Association of Boards of Health, and a committee of which I had the honor to be a member came to the following conclusions as to ways in which these matters might be taught:

1. By the instruction of teachers by an annual lecture or talk. The Teachers' Institute furnishes an excellent opportunity for this.

2. By the distribution annually to teachers of a circular, a model for which is herewith presented.

3. If the town or city desires cleanliness and refinement taught, it must itself teach by example.

The free text-book system presents some obstacles to the development of the idea of privacy of personal property, but with care they can be overcome. Even with this system the pupil can in most instances have its own books, pencils, and slates for a term or year, and be held responsible for their condition. This should always be done so far as possible with everything that is furnished by the school department for the use of pupils. It entails more trouble for the teachers, particularly in the care of pencils, penholders, etc.; but with a proper system and some care these may be kept separate for each child. When books become decidedly soiled, they should be destroyed.

The use of modelling clay, if it is passed from one pupil to another, is objectionable, as it certainly gathers dirt from the hands. But, if each pupil's clay is kept separate, as is done in many schools, its use may be permitted. Children must not be allowed to use their saliva on their slates. Each child may be provided with its own sponge or cloth, and must not be allowed to use anything else for erasing. This is entirely practicable, and is frequently done. There are several reasons why it would be advantageous to abolish the use of slates, and the chief objection to this appears to be the expense. Nevertheless, the use of slates has been done away with in many schools; and it is recommended that this be done wherever possible.

The drinking-cup is perhaps the most common means of transmitting saliva from one to another, and its use should be abolished if possible. Separate drinking-cups might be provided either by the pupils or by the city school department. The use of a special style of drinking fountain to be used without cups has been recommended, but with this the committee has no experience.

With these conclusions I heartily agree. Many of the matters referred to have already received attention in Providence and others should. Drinking-cups are still used in common in many schools, and this custom ought to be abolished.

The circular prepared by the committee and slightly changed, was last fall distributed to all the teachers in the public schools. It is printed below:

HEALTH DEPARTMENT, SUGGESTIONS FOR THE TEACHING OF CLEANLINESS AMONG  
SCHOOL CHILDREN.

The poisons of some of the common and also of some of the most loathsome diseases are frequently contained in the mouth. In such cases anything which is moistened by the saliva of the infected person may, if it touches the lips of another convey the disease. The more direct the contact the greater the danger.

It is the purpose of health officials to keep in isolation all persons having communicable disease during the time that they are infectious. But in many cases this is impossible. Little restraint is put on certain mild diseases as measles, whooping cough, chicken-pox, and mumps, and even such diseases as diphtheria,



scarlet fever and tuberculosis are frequently so mild as to be unnoticed, and children affected with them mingle freely with others. It is probable that in such cases one of the chief vehicles of contagion is the secretion of the mouth and nose. It is believed that much can be done to prevent contagion by teaching habits of cleanliness. But if such instruction is to be effectual it must be continuous. The teacher must notice and correct violations of those rules as habitually as the violation of the more formal school rules are corrected.

Even if the question of disease and contagion did not enter into the matter at all the subject ought to be given more attention by teachers. Our schools should not only teach reading, writing, and arithmetic, but it is perhaps quite as important that they should inculcate cleanliness, decency, refinement, and manners. Cleanliness should be taught for its own sake even if it had no relation whatever to health.

#### TEACH THE CHILDREN.

Not to spit; it is rarely necessary. To spit on a slate, floor, or sidewalk, is an abomination.

Not to put the fingers into the mouth.

Not to pick the nose.

Not to wet the finger with saliva in turning the leaves of books.

Not to put pencils into the mouth or moisten them with the lips.

Not to put money into the mouth.

Not to put pins into the mouth.

Not to put anything into the mouth except food and drink.

Not to swap apple cores, candy, chewing gum, half eaten food, whistles or bean blowers or anything that is habitually put in the mouth.

Teach the children to wash the hands and face often, See that they keep them clean. If a child is coming down with a communicable disease, it is reasonable to believe that there is less chance of infecting persons and things if the hands and face are washed clean, and not doubled with the secretions of the nose and mouth.

Teach the children to turn the face aside when coughing and sneezing, if they are facing another person.

Children should be taught that their bodies are their own private possessions, that personal cleanliness is a duty, that the mouth is for eating and speaking, and should not be used as a pocket, and the lips should not take the place of fingers.

PROVIDENCE, May, 1901.

#### *Population.*

|                           |         |
|---------------------------|---------|
| Census, June 1, 1890..... | 132,146 |
| “ Jan. 1, 1893.....       | 148,944 |
| “ June 1, 1895.....       | 145,472 |
| “ June 1, 1900.....       | 175,597 |

*Area.*

18.29 square miles.

*Assessed Valuation.*

|                              | 1900.            | 1901.            |
|------------------------------|------------------|------------------|
| Real estate.....             | \$149,094,840 00 | \$151,533,940 00 |
| Personal estate.....         | 43,022,400 00    | 41,267,920 00    |
| Total.....                   | \$193,117,240 00 | \$192,801,860 00 |
| Total amount of all tax..... | 3,073,875 84     | 3,084,829 76     |

*Water and Sewers.*

|                                          |                  |                  |
|------------------------------------------|------------------|------------------|
| Miles of water pipes.....                | 324.157*         | 330.639*         |
| Number of service pipes in use.....      | 21,566           | 22,186           |
| Number of meters in use.....             | 17,813           | 18,544           |
| Average daily consumption of water. .... | 10,131,489 gals. | 10,734,700 gals. |
| Miles of sewers.....                     | 180.423          | 184.666          |
| Number of sewer connections.....         | 15,576           | 16,277           |

## 1. SCITUATE.

2. Alberto E. Wood, health officer.

3. There were no epidemics in this town during the year.

7. No sanitary inspections were made during the year.

8. No unhealthy localities in this town are known.

9. All public nuisances, unsanitary premises, etc., are reported to the town council.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.

11. William H. Poole, Adelbert L. Wood, and William F. Angell are the ice dealers of this town.

## 1. SMITHFIELD.

2. Jencks Smith, health officer.

3. The contagious diseases reported during the year were as follows: diphtheria, three; scarlet fever, twenty-three; typhoid fever and small-pox, one each. Most of these cases were in the village of Georgiaville.

\* Besides 5.569 for fire purposes.

4. Isolation was maintained.
  5. All of the sick were isolated.
  6. All the privies and cesspools on the infected premises were inspected.
  7. Sanitary inspections were made during the year.
  8. The village of Georgiaville is the only unhealthy locality known in this town.
  9. All public nuisances, unsanitary premises, etc., are reported to the town council.
  10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.
  11. William Winsor and Arthur Gould are the ice dealers of this town.
1. WOONSOCKET.—No report from the health officer.

## WASHINGTON COUNTY.

1. CHARLESTOWN.
2. Milton Duckworth, M. D., health officer.
3. Scarlet fever was quite prevalent during the month of December there being six cases, none of which, however, were fatal.
4. Isolation was maintained.
5. All of the sick were isolated.
6. Inspections of premises where sickness prevailed were made but nothing of an unsanitary nature could be found.
7. One sanitary inspection was made at Quonocontaug Beach. There was found there garbage piled up behind buildings where it had been all summer. This was ordered removed.
8. No unhealthy localities in this town are known.
10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.
11. J. C. Tucker of Carolina and Samuel Green of Cross Mills are the ice dealers of this town.

EXETER has no health officer.

1. HOPKINTON.—No report from the health officer.

## 1. NARRAGANSETT.

2. Solomon H. Hale, health officer.

3. There were no epidemics in this district during the year.

6. Inspections of premises where sickness prevailed were made. This was done daily during the summer months and anything unsanitary was rectified at once.

7. A large amount of mussels was washed upon the beach one day. This was removed at once.

8. No unhealthy localities in this district are known.

9. All public nuisances, unsanitary premises, etc., are reported to the district council.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this district.

11. Browning and Griffin are the ice dealers of this district.

## 1. NORTH KINGSTOWN.

2. Harold Metcalf, M. D., health officer.

3. Few, if any, contagious diseases were reported during the year.

4. Isolation was maintained in the compact part of the town.

5. All of the sick were isolated.

6. Occasionally inspections of premises where sickness prevailed were made upon complaint.

7. Sanitary inspections of out-houses, cesspools, etc., were made at my own option.

8. No unhealthy localities in this town are known.

9. All public nuisances, unsanitary premises, etc., are reported to the town council.

10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town, but I consider the water supply of the village of Saunderstown poor.

11. Rose & Artist, of Saunderstown, John Maglone, of Allenton, and James Brayman, and W. George Orpen, of Wickford, are the ice dealers of this town.

## 1. RICHMOND.

2. Charles A. Fuller, health officer.

3. The contagious diseases reported were as follows: typhoid fever, three, and scarlet fever, two. No deaths resulted from either of these diseases.

4. Isolation was maintained.
7. Sanitary inspections were made during the year.
9. All public nuisances, unsanitary premises, etc., are reported to the town council.
10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.
11. S. R. Avery and John Smith are the ice dealers of this town.

1. SOUTH KINGSTOWN.
2. Daniel T. Carr, health officer.
3. The only contagious disease reported during the year was typhoid fever, there being sixteen cases of that disease with four deaths.
4. Isolation was not maintained.
5. None of the sick were isolated.
6. Inspections of premises where sickness prevailed were made and water was analyzed, but was unable to trace cause.
7. No sanitary inspections were made during the year.
8. No unhealthy localities in this town are known.
9. All public nuisances, unsanitary premises, etc., are reported to the town council.
10. There has been, to my knowledge, no contamination of the water, milk, and ice supplies of this town.
11. George F. Priday is the ice dealer of this town.

1. WESTERLY.—No report from the health officer.

# WATER SUPPLIES.





## EXAMINATION OF WATER SUPPLIES.

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Since 1894 the Board has made monthly analyses of the water supply of the city of Providence, taken from the Pawtuxet river.

The samples have been taken at three different points: At the Pettaconset pumping station; at Washington Village, on the south branch, at a point above any known source of contamination; and at the village of Hope, on the north branch of the river, above any possible source of contamination from villages, residences, or manufacturers.

These reports have been of considerable service in determining the quality of the supply at various points, and permitting of comparison as to their value and the possibility of pollution at any point between the sources of supply and the intake.

At a time when the question as to the necessity of filtering the supply before serving it to the city arose, a proposal that it might be more desirable to take the supply direct from reservoirs to be constructed on one of the branches of the river above possible sources of pollution was presented. By reference to the published results of these examinations, it was determined that a vast amount of contamination entered the water between the two upper branches, and at the intake or pumping station. This arises largely from the surface drainage from fields and villages along the stream, and from the large amount of sediment which has accumulated in the bed of the river.

While the stream is running evenly the sediment is caught in the various reservoirs at the dams connected with the various industries along the banks of the stream. As soon as a mill starts up a rush of water follows, stirring up and carrying along the sediment which

was lying in the shallow stream. This mixture is received at the pumping station, giving a polluted water.

Owing to the distance of the heads of the river, however, and to the probable excessive cost of acquiring control of the water shed, the proposition of obtaining a supply from the upper branches was left in abeyance.

An examination of this water supply has been made by the engineer's department of the city of Providence for many years, one sample being taken on the first and fifteenth of every month. All of the above examinations since 1894 will be found in detail by months in the previous reports of the Board. The average of the several years will be found in this report in conjunction with the monthly reports.

While the supply of the city of Providence is the largest and most important of any in the State, inasmuch as it supplies the largest population, it was believed by the Board that it was equally important that all potable public water supplies in the State should be examined periodically, first to determine their fitness as a drinking water, and, second, to be posted as to any change which might take place in the character of the water at any time and especially in the presence of an epidemic of any water-bourne disease, as the Board would be in a position to determine if any deterioration in the character of the water had occurred at the time and if it might have any influence in the production of the epidemic.

By being able promptly to determine that the water had no influence in this way, the inspector would be in a position to seek other sources of danger more promptly and with greater assurance.

Accordingly as a result of an application to the legislature in 1900, an increased appropriation was made available, wherewith the Board was enabled to equip a complete chemical laboratory and to obtain the services of a competent chemist.

Mr. Ernest F. Badger, a graduate of the Massachusetts Institute of Technology, and who had been associated with the Massachusetts State Board of Health at the Lawrence Experiment Station, has

creditably acted as chemist and assisted with suggestions in the selection of samples and in the management and care of the sewage disposal plants of the three cities which purify their waste waters.

Arrangements to make the bacteriological examinations in connection with the work already executed by it in examination of sputum and diphtheria cultures were made with the Rhode Island Laboratory.

In addition to the examination of the three supplies from the Pawtuxet river, a sample of this supply was taken from the tap in the laboratory in the centre of the city, located about six miles from the point where the Pettaconset sample was taken.

In addition, also, monthly samples have been examined of samples of water taken from the several towns having a public water service.

The results are given by months for each supply.

Also in groups by averages for different years where the supplies came from the same neighborhood. In many cases different supplies may be taken by consumers on the same streets or in the same towns.

A final table is given in which the annual averages for the year are given, that comparison may be made with all the supplies.

*Chemical Examinations of the Water Supply of the City of Providence, taken from the Pawtuxet River, at the Pettaconset Pumping Station, by the Engineering Department of the City of Providence, by months, on the first and fifteenth of each month, for the year 1901.*

| DATE.                 | Total Residue. | Organic and Volatile Matter. | Mineral Matter. | Common Salt. | Albuminoid Ammonia. | Ready-formed Ammonia. | Nitrogen in Nitrates. | Nitrogen in Nitrites. | Color. | Alkalinity. |
|-----------------------|----------------|------------------------------|-----------------|--------------|---------------------|-----------------------|-----------------------|-----------------------|--------|-------------|
| January 1.....        | 52             | 24                           | 28              | 9.22         | .28                 | .06                   | .70                   | 0                     | .45    | 7.50        |
| January 15.....       | 49             | 21                           | 28              | 9.55         | .22                 | .04                   | .70                   | 0                     | .40    | 8.00        |
| February 1.....       | 55             | 20                           | 35              | 8.89         | .28                 | .06                   | .70                   | 0                     | .35    | 7.50        |
| February 15.....      | 62             | 22                           | 40              | 7.24         | .25                 | .06                   | .60                   | trace                 | .30    | 9.90        |
| March 1.....          | 55             | 19                           | 36              | 8.56         | .24                 | .06                   | .60                   | trace                 | .30    | 9.50        |
| March 15.....         | 40             | 21                           | 19              | 3.25         | .24                 | .08                   | .60                   | 0                     | .50    | 4.00        |
| April 1.....          | 36             | 13                           | 23              | 7.24         | .26                 | .06                   | .70                   | 0                     | .45    | 4.50        |
| April 15.....         | 41             | 16                           | 25              | 7.24         | .20                 | .05                   | .70                   | 0                     | .45    | 5.25        |
| May 1.....            | 34             | 20                           | 14              | 7.57         | .17                 | .02                   | .60                   | 0                     | .45    | 6.00        |
| May 15.....           | 39             | 13                           | 26              | 9.22         | .24                 | .03                   | .60                   | 0                     | .55    | 6.40        |
| June 1.....           | 38             | 15                           | 23              | 6.26         | .19                 | .03                   | .65                   | 0                     | .60    | 5.55        |
| June 15.....          | 43             | 16                           | 27              | 10.54        | .20                 | .06                   | .60                   | 0                     | .55    | 8.00        |
| July 1.....           | 44             | 20                           | 24              | 8.24         | .22                 | .08                   | .60                   | 0                     | .50    | 8.00        |
| July 15.....          | 50             | 25                           | 25              | 7.24         | .19                 | .03                   | .60                   | 0                     | .50    | 9.25        |
| August 1.....         | 55             | 21                           | 34              | 9.22         | .30                 | .08                   | .45                   | 0                     | .45    | 9.00        |
| August 15.....        | 41             | 20                           | 21              | 8.89         | .32                 | .06                   | .30                   | 0                     | .45    | 9.50        |
| *September.....       | 54             | 24                           | 30              | 9.22         | .28                 | .06                   | .20                   | 0                     | .55    | 8.70        |
| September 16.....     | 60             | 32                           | 28              | 9.55         | .23                 | .19                   | .30                   | 0                     | .50    | 14.00       |
| October 1.....        | 66             | 24                           | 42              | 10.87        | .32                 | .07                   | .30                   | 0                     | .55    | 13.00       |
| October 15.....       | 60             | 21                           | 36              | 9.88         | .40                 | .07                   | .30                   | 0                     | 1.00   | 11.25       |
| November 1.....       | 72             | 36                           | 36              | 9.55         | .40                 | .06                   | .30                   | trace                 | .60    | 12.75       |
| November 15.....      | 60             | 36                           | 24              | 9.55         | .21                 | .04                   | .20                   | 0                     | .50    | 10.50       |
| December 2.....       | 52             | 18                           | 34              | 9.88         | .26                 | .06                   | .70                   | 0                     | .60    | 6.00        |
| December 16.....      | 54             | 25                           | 29              | 6.89         | .28                 | .02                   | .60                   | 0                     | .85    | 5.25        |
| Average for year..... | 51             | 22                           | 29              | 8.49         | .26                 | .06                   | .53                   | 0                     | .52    | 8.35        |

\* Taken on last day of preceding month.

## WATER SUPPLY OF PROVIDENCE.

*Chemical Examinations of the Pawtuxet River Water, taken at the Pettaconset Pumping Station, giving averages, by years, for twenty-six years.*

[Parts (in weight) in one million parts of water (in weight).]

| YEAR.         | Total Residue. |          | Mineral Matter. |          | Organic and Volatile Matter. |          | Common Salt. |          | Albuminoid Ammonia. |          | Ammonia. |          |
|---------------|----------------|----------|-----------------|----------|------------------------------|----------|--------------|----------|---------------------|----------|----------|----------|
|               | Average.       | Maximum. | Average.        | Maximum. | Average.                     | Maximum. | Average.     | Maximum. | Average.            | Maximum. | Average. | Maximum. |
| 1876. ....    | 50             | 62       | 30              | 44       | 20                           | 30       | 5.72         | 8.50     | .24                 | .40      | .06      | .11      |
| 1877. ....    | 43             | 56       | 24              | 32       | 19                           | 24       | 5.46         | 7.09     | .23                 | .32      | .06      | .12      |
| 1878. ....    | 37             | 54       | 21              | 34       | 16                           | 24       | 5.47         | 8.51     | .17                 | .25      | .04      | .10      |
| 1879. ....    | 38             | 59       | 24              | 43       | 14                           | 24       | 5.73         | 10.83    | .17                 | .23      | .05      | .10      |
| 1880. ....    | 45             | 70       | 29              | 49       | 16                           | 22       | 6.35         | 8.76     | .22                 | .26      | .02      | .14      |
| 1881. ....    | 41             | 55       | 26              | 40       | 15                           | 21       | 4.95         | 8.07     | .21                 | .28      | .02      | .05      |
| 1882. ....    | 43             | 59       | 27              | 42       | 16                           | 25       | 4.43         | 6.60     | .25                 | .38      | .03      | .08      |
| 1883. ....    | 47             | 64       | 30              | 47       | 17                           | 24       | 4.60         | 7.95     | .27                 | .36      | .04      | .14      |
| 1884. ....    | 45             | 72       | 29              | 43       | 16                           | 29       | 4.79         | 7.33     | .19                 | .32      | .04      | .14      |
| 1885. ....    | 46             | 63       | 30              | 46       | 16                           | 24       | 4.20         | 6.74     | .22                 | .30      | .05      | .20      |
| 1886. ....    | 46             | 59       | 29              | 44       | 17                           | 25       | 4.14         | 5.95     | .22                 | .30      | .05      | .14      |
| 1887. ....    | 42             | 63       | 24              | 40       | 18                           | 25       | 4.18         | 6.84     | .21                 | .36      | .04      | .10      |
| 1888. ....    | 41             | 59       | 21              | 40       | 17                           | 30       | 3.49         | 5.62     | .20                 | .30      | .05      | .14      |
| 1889. ....    | 38             | 52       | 22              | 29       | 17                           | 27       | 2.86         | 4.99     | .21                 | .30      | .04      | .10      |
| 1890. ....    | 41             | 55       | 24              | 35       | 17                           | 25       | 3.63         | 5.30     | .24                 | .36      | .04      | .12      |
| 1891. ....    | 51             | 107      | 32              | 74       | 19                           | 33       | 3.99         | 6.52     | .23                 | .38      | .04      | .14      |
| 1892. ....    | 48             | 71       | 29              | 49       | 19                           | 29       | 5.22         | 8.48     | .29                 | .46      | .07      | .20      |
| 1893. ....    | 46             | 66       | 29              | 46       | 17                           | 22       | 5.27         | 8.89     | .26                 | .34      | .05      | .12      |
| 1894. ....    | 49             | 75       | 31              | 52       | 18                           | 24       | 5.72         | 8.90     | .27                 | .46      | .04      | .18      |
| 1895. ....    | 46             | 61       | 29              | 39       | 18                           | 27       | 5.73         | 8.45     | .30                 | .48      | .09      | .34      |
| 1896. ....    | 44             | 57       | 27              | 36       | 18                           | 25       | 5.51         | 7.71     | .28                 | .46      | .08      | .20      |
| 1897. ....    | 46             | 61       | 27              | 40       | 19                           | 28+      | 5.33         | 8.60     | .27                 | .36      | .05      | .16      |
| 1898. ....    | 42             | 55       | 26              | 35       | 17                           | 21       | 4.87         | 6.80     | .24                 | .34      | .04      | .08      |
| 1899. ....    | 46             | 64       | 29              | 42       | 17                           | 28       | 7.98         | 12.18    | .26                 | .36      | .04      | .09      |
| 1900. ....    | 50             | 73       | 30              | 50       | 20                           | 27       | 8.25         | 12.52    | .27                 | .36      | .06      | .18      |
| 1901. ....    | 51             | 72       | 29              | 42       | 22                           | 36       | 8.49         | 10.87    | .26                 | .40      | .06      | .19      |
| Average ..... | 45             | .....    | 26              | .....    | 18                           | .....    | 5.25         | .....    | .24                 | .....    | .05      | .....    |
| Maximum. .... | .....          | 107      | .....           | 74       | .....                        | 36       | .....        | 12.52    | .....               | .48      | .....    | .34      |



*Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the Pawtuxet River, at Pumping Station, at Pettaconset, collected during the second and fourth week of the month.*

(Parts in 100,000 )

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              |     | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|-----|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. |     |                  |           |             |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |     |                  |           |             |                    |
| Jan. 10.....           | v. sl.      | dec.      | .47    | 5.65                            | 2.05              | 3.60   | .0012    | .0236       | .0180        | .0046          | .42       | .014         | trace        | .70 | 1.35             | .70       | 3038        |                    |
| Jan. 24.....           | sl.         | "         | .42    | 5.50                            | 1.85              | 3.65   | .0012    | .0216       | .0192        | .0024          | .40       | .020         | .0002        | .66 | 1.56             | .85       | 3410        |                    |
| Monthly avg.           | "           | "         | .45    | 5.58                            | 1.95              | 3.63   | .0012    | .0221       | .0186        | .0035          | .41       | .017         | .0001        | .68 | 1.46             | .78       | 3224        |                    |
| Feb. 7.....            | sl.         | dec.      | .31    | 5.90                            | 2.05              | 3.85   | .0016    | .0194       | .0158        | .0056          | .42       | .018         | trace        | .63 | 1.27             | .75       | 439         |                    |
| Feb. 22.....           | "           | mkd.      | .31    | 5.35                            | 1.65              | 3.70   | .0010    | .0196       | .0166        | .0030          | .45       | .014         | trace        | .58 | 1.03             | .55       | 3472        |                    |
| Monthly avg.           | "           | "         | .31    | 5.63                            | 1.85              | 3.78   | .0013    | .0195       | .0162        | .0033          | .44       | .016         | trace        | .61 | 1.15             | .65       | 1956        |                    |
| Mar. 7.....            | dec.        | dec.      | .35    | 6.00                            | 1.90              | 4.10   | .0048    | .0260       | .0204        | .0056          | .44       | .021         | .0002        | .66 | 1.76             | .70       | 9858        |                    |
| Mar. 21.....           | v. sl.      | sl.       | .41    | 4.70                            | 2.00              | 2.70   | .0010    | .0186       | .0156        | .0030          | .34       | .011         | trace        | .64 | .79              | .30       | 3100        |                    |
| Monthly avg.           | dec.        | dec.      | .38    | 5.35                            | 1.95              | 3.40   | .0029    | .0223       | .0180        | .0043          | .39       | .016         | .0001        | .65 | 1.28             | .50       | 6179        |                    |
| April 11.....          | v. sl.      | sl.       | .40    | 3.85                            | 1.45              | 2.40   | .0002    | .0162       | .0144        | .0018          | .25       | .013         | 0            | .57 | .79              | .40       | 529         |                    |
| April 30.....          | "           | "         | .38    | 4.05                            | 1.65              | 2.40   | .0002    | .0161       | .0136        | .0028          | .26       | .008         | 0            | .54 | .79              | .40       | 567         |                    |
| Monthly avg.           | "           | "         | .39    | 3.95                            | 1.55              | 2.40   | .0002    | .0163       | .0140        | .0023          | .26       | .011         | 0            | .56 | .79              | .40       | 548         |                    |

*Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the Pawtucket River, at Pumping Station at Pettuconset, collected during the second and fourth week of the month.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |                  |      |           |             |                    |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. |      | Hardness. | Alkalinity. | Bacteria per c. c. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |      |           |             |                    |
| May 9.....             | sl.         | sl.       | .40    | 4.60                            | 1.70              | 2.90   | .0002    | .0200       | .0186        | .0014          | .33       | .011         | .0006        | .58              | 1.11 | .50       | 1839        |                    |
| May 22.....            | "           | "         | .52    | 4.60                            | 1.90              | 2.70   | .0002    | .0202       | .0184        | .0018          | .27       | .010         | trace        | .67              | .79  | .41       | 1903        |                    |
| Monthly avg.           | "           | "         | .46    | 4.60                            | 1.80              | 2.80   | .0002    | .0201       | .0185        | .0016          | .30       | .011         | .0003        | .63              | .95  | .46       | 1871        |                    |
| June 5.....            | sl.         | sl.       | .55    | 5.40                            | 2.05              | 3.35   | .0002    | .0248       | .0218        | .0030          | .33       | .011         | trace        | .77              | 1.11 | .65       | 2418        |                    |
| June 20.....           | "           | "         | .51    | 5.30                            | 2.45              | 2.85   | .0002    | .0286       | .0234        | .0052          | .37       | .009         | .0002        | .72              | 1.35 | .74       | 686         |                    |
| Monthly avg.           | "           | "         | .53    | 5.35                            | 2.25              | 3.10   | .0002    | .0267       | .0226        | .0041          | .35       | .010         | .0001        | .75              | 1.23 | .70       | 1552        |                    |
| July 11.....           | sl.         | sl.       | .48    | 5.05                            | 1.85              | 3.20   | .0008    | .0226       | .0190        | .0036          | .35       | .009         | 0            | .55              | 1.03 | .69       | 2209        |                    |
| July 25.....           | "           | dist.     | .51    | 8.35                            | 2.50              | 5.85   | .0022    | .0290       | .0238        | .0052          | .45       | .011         | trace        | .57              | 1.82 | .91       | 1035        |                    |
| Monthly avg.           | "           | "         | .50    | 6.70                            | 2.18              | 4.52   | .0015    | .0258       | .0214        | .0044          | .40       | .010         | trace        | .56              | 1.43 | .80       | 1622        |                    |
| Aug. 8.....            | sl.         | dist.     | .35    | 5.30                            | 1.90              | 3.40   | .0016    | .0274       | .0204        | .0070          | .41       | .009         | .0002        | .49              | 1.50 | 1.14      | 1088        |                    |
| Aug. 22.....           | "           | sl.       | .37    | 6.85                            | 2.30              | 4.55   | .0002    | .0284       | .0226        | .0058          | .41       | .007         | trace        | .56              | 1.89 | .97       | 7998        |                    |
| Monthly avg.           | "           | dist.     | .36    | 6.08                            | 2.10              | 3.98   | .0009    | .0279       | .0215        | .0064          | .44       | .008         | .0001        | .53              | 1.70 | 1.06      | 4543        |                    |

*Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the Pawtuxet River, at Pumping Station at Pettaconset, collected during the second and fourth week of the month.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |           |             |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Sept. 5.....           | sl.         | sl.       | .39    | 4.60                            | 1.25              | 3.35   | .0000    | .0262       | .0234        | .0028          | .44       | .010         | trace.       | .49              | 1.27      | 1.06        | 10444              |
| Sept. 27.....          | "           | dec.      | .33    | 6.05                            | 2.30              | 3.75   | .0006    | .0276       | .0206        | .0070          | .50       | .010         | trace.       | .50              | 1.82      | 1.11        | 3224               |
| Monthly avg.           | "           | "         | .36    | 5.33                            | 1.78              | 3.55   | .0003    | .0269       | .0220        | .0049          | .47       | .010         | trace.       | .50              | 1.55      | 1.09        | 6834               |
| Oct. 10.....           | dist.       | dist.     | .40    | 7.20                            | 2.30              | 4.90   | .0002    | .0312       | .0244        | .0068          | .54       | .010         | .0006        | .63              | 1.56      | 1.10        | 19778              |
| Oct. 24.....           | "           | dec.      | .64    | 6.80                            | 2.70              | 4.10   | .0022    | .0336       | .0272        | .0054          | .54       | .010         | .0010        | 1.00             | 1.89      | 1.09        | 5580               |
| Monthly avg.           | "           | "         | .52    | 7.00                            | 2.50              | 4.50   | .0012    | .0319       | .0258        | .0061          | .54       | .010         | .0008        | .82              | 1.73      | 1.10        | 12679              |
| Nov. 7.....            | dist.       | dec.      | .51    | 9.15                            | 3.25              | 5.90   | .0016    | .0422       | .0330        | .0092          | .64       | .017         | .0002        | .98              | 2.21      | 1.83        | 2170               |
| Nov. 21. ....          | "           | dist.     | .33    | 6.60                            | 2.30              | 4.30   | .0010    | .0262       | .0228        | .0031          | .57       | .020         | .0024        | .76              | 1.76      | 1.33        | 7998               |
| Monthly avg.           | "           | dec.      | .42    | 7.88                            | 2.78              | 5.10   | .0013    | .0342       | .0279        | .0063          | .61       | .019         | .0013        | .87              | 1.99      | 1.58        | 5084               |
| Dec. 5.....            | dist.       | sl.       | .55    | 6.95                            | 2.40              | 4.55   | .0038    | .0250       | .0234        | .0016          | .53       | .016         | 0            | .87              | 1.69      | .85         | 1842               |
| Dec. 19.....           | sl.         | dist.     | .70    | 6.25                            | 2.70              | 3.55   | .0020    | .0226       | .0202        | .0024          | .39       | .025         | .0010        | .90              | 1.69      | .50         | 2542               |
| Monthly avg.           | dist.       | "         | .63    | 6.60                            | 2.55              | 4.05   | .0029    | .0238       | .0218        | .0020          | .46       | .021         | .0005        | .89              | 1.69      | .68         | 2192               |
| Yearly avg ..          | sl.         | sl.       | .41    | 5.83                            | 2.10              | 3.73   | .0012    | .0248       | .0207        | .0041          | .42       | .013         | .0003        | .67              | 1.41      | .82         | 4032               |

*Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the South Branch of the Pawtucket River, at Washington, above all sources of pollution from town and mill wastes, collected during the second and fourth week of the month.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |              |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|------------------|-----------|-------------|--------------------|--------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |           |             |                    | As Nitrites. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                  |           |             |                    |              |
| Jan. 10.....           | v. sl.      | sl.       | .47    | 4.00                            | 1.85              | 2.15   | .0008    | .0154       | .0146        | .0008          | .30       | .006         | 0                | .60       | .79         | .50                | 363          |
| Jan. 24.....           | sl.         | v. sl.    | .40    | 3.80                            | 1.35              | 2.45   | .0010    | .0172       | .0166        | .0006          | .30       | .004         | 0                | .63       | .79         | .55                | 2046         |
| Monthly avg.           | "           | sl.       | .44    | 3.90                            | 1.60              | 2.30   | .0009    | .0163       | .0156        | .0007          | .30       | .005         | 0                | .62       | .79         | .53                | 1205         |
| Feb. 7.....            | v. sl.      | v. sl.    | .31    | 3.95                            | 1.45              | 2.50   | .0012    | .0104       | .0092        | .0012          | .33       | .006         | 0                | .45       | .63         | .65                | 177          |
| Feb. 21.....           | "           | sl.       | .30    | 3.65                            | 1.10              | 2.55   | .0020    | .0110       | .0102        | .0008          | .32       | .005         | 0                | .37       | .63         | .50                | 169          |
| Monthly avg.           | "           | "         | .31    | 3.80                            | 1.28              | 2.52   | .0016    | .0107       | .0097        | .0010          | .33       | .006         | 0                | .41       | .63         | .58                | 173          |
| Mar. 7.....            | sl.         | v. sl.    | .28    | 3.80                            | 1.25              | 2.55   | .0038    | .0138       | .0134        | .0004          | .32       | .007         | 0                | .41       | .63         | .45                | 1910         |
| Mar. 21.....           | sl.         | dist.     | .45    | 4.35                            | 1.95              | 2.40   | .0024    | .0202       | .0152        | .0050          | .20       | .003         | 0                | .69       | .32         | .30                | 3162         |
| Monthly avg.           | "           | "         | .37    | 4.08                            | 1.60              | 2.48   | .0031    | .0170       | .0143        | .0027          | .26       | .005         | 0                | .55       | .48         | .38                | 2536         |
| April 11.....          | 0           | v. sl.    | .47    | 3.15                            | 1.30              | 1.85   | .0002    | .0138       | .0136        | .0002          | .20       | .001         | 0                | .61       | .24         | .30                | 902          |
| April 30.....          | v. sl.      | "         | .50    | 3.25                            | 1.45              | 1.80   | .0002    | .0136       | .0128        | .0008          | .18       | .002         | 0                | .60       | .32         | .35                | 395          |
| Monthly avg.           | "           | "         | .49    | 3.20                            | 1.38              | 1.82   | .0002    | .0137       | .0132        | .0005          | .19       | .002         | 0                | .62       | .28         | .33                | 649          |

*Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the South Branch of the Pawtucket River, at Washington, above all sources of pollution from town and mill wastes, collected during the second and fourth week of the month.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |              |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|------------------|-----------|-------------|--------------------|--------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |           |             |                    | As Nitrites. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                  |           |             |                    |              |
| May. 9.....            | v. sl.      | v. sl.    | .43    | 4.05                            | 1.80              | 2.25   | .0006    | .0168       | .0158        | .0010          | .24       | .004         | 0                | .57       | .32         | .39                | 449          |
| May. 22 .....          | "           | "         | .56    | 3.65                            | 1.55              | 2.10   | .0004    | .0184       | .6178        | .0006          | .25       | .005         | 0                | .71       | .40         | .32                | 368          |
| Monthly avg.           | "           | "         | .50    | 3.85                            | 1.68              | 2.17   | .0005    | .0176       | .0168        | .0008          | .25       | .005         | 0                | .64       | .36         | .36                | 401          |
| June 5.....            | v. sl.      | sl.       | .57    | 3.50                            | 1.70              | 1.80   | .0002    | .0190       | .0182        | .0008          | .23       | .005         | 0                | .73       | .32         | .37                | 128          |
| June 20.....           | "           | v. sl.    | .57    | 4.50                            | 2.00              | 2.50   | .0002    | .0190       | .0176        | .0014          | .27       | .003         | 0                | .66       | 1.19        | 1.03               | 152          |
| Monthly avg.           | "           | sl.       | .57    | 4.00                            | 1.85              | 2.15   | .0002    | .0190       | .0179        | .0011          | .25       | .004         | 0                | .70       | .76         | .70                | 140          |
| July 11.....           | v. sl.      | v. sl.    | .45    | 3.65                            | 1.60              | 2.05   | .0008    | .0186       | .0180        | .0006          | .27       | .002         | 0                | .55       | .40         | .50                | 4009         |
| July 25.....           | "           | "         | .40    | 3.25                            | 1.20              | 2.05   | .0008    | .0204       | .0196        | .0008          | .27       | .003         | 0                | .44       | .56         | .48                | 88           |
| Monthly avg.           | "           | "         | .43    | 3.45                            | 1.40              | 2.05   | .0008    | .0195       | .0188        | .0007          | .27       | .003         | 0                | .50       | .48         | .49                | 3049         |
| Aug. 8.....            | v. sl.      | v. sl.    | .35    | 3.25                            | 1.30              | 1.95   | .0002    | .0180       | .0170        | .0010          | .23       | .001         | 0                | .47       | .48         | .48                | 463          |
| Aug. 22.....           | sl.         | sl.       | .37    | 4.05                            | 1.45              | 2.60   | .0006    | .0202       | .0186        | .0016          | .29       | .001         | 0                | .52       | 1.11        | .58                | 971          |
| Monthly avg.           | "           | "         | .36    | 3.65                            | 1.38              | 2.27   | .0004    | .0191       | .0178        | .0013          | .26       | .001         | 0                | .50       | .80         | .53                | 717          |

*Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the South Branch of the Pawtuxet River, at Washington, above all sources of pollution from town and mill wastes, collected during the second and fourth week of the month.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |     | Oxygen. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|-----|---------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |     |         |           |             |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |     |         |           |             |                    |
| Sept. 5.....           | v. sl.      | v. sl.    | .37    | 3.55                            | 1.05              | 2.50   | .0006    | .0186       | .0174        | .0012          | .26       | .001         | 0            | .41 | .71     | .71       | 218         |                    |
| Sept. 27.....          | "           | "         | .36    | 3.90                            | 1.15              | 2.75   | .0006    | .0160       | .0158        | .0002          | .28       | .002         | 0            | .41 | .79     | .65       | 74          |                    |
| Monthly avg.           | "           | "         | .37    | 3.73                            | 1.10              | 2.63   | .0006    | .0173       | .0166        | .0007          | .27       | .002         | 0            | .41 | .75     | .68       | 146         |                    |
| Oct. 10.....           | v. sl.      | v. sl.    | .47    | 4.05                            | 1.90              | 2.15   | .0022    | .0210       | .0208        | .0002          | .30       | .003         | 0            | .67 | .77     | .52       | 775         |                    |
| Oct. 24.....           | "           | "         | .61    | 4.35                            | 2.00              | 2.35   | .0052    | .0210       | .0194        | .0016          | .35       | .002         | 0            | .87 | 1.11    | .49       | 262         |                    |
| Monthly avg.           | "           | "         | .54    | 4.20                            | 1.95              | 2.25   | .0037    | .0210       | .0201        | .0009          | .33       | .003         | 0            | .77 | .94     | .51       | 519         |                    |
| Nov. 7.....            | v. sl.      | v. sl.    | .50    | 3.20                            | 2.10              | 1.10   | .0042    | .0212       | .0208        | .0004          | .33       | .003         | 0            | .61 | .55     | .45       | 83          |                    |
| Nov. 21.....           | "           | "         | .35    | 3.70                            | 1.45              | 2.25   | .0028    | .0128       | .0126        | .0002          | .31       | .005         | 0            | .54 | .63     | .48       | 241         |                    |
| Monthly avg.           | "           | "         | .43    | 3.45                            | 1.78              | 1.67   | .0035    | .0170       | .0167        | .0003          | .32       | .004         | 0            | .58 | .59     | .47       | 162         |                    |
| Dec. 5.....            | v. sl.      | v. sl.    | .60    | 5.80                            | 2.10              | 3.70   | .0036    | .0224       | .0210        | .0014          | .40       | .008         | 0            | .87 | .87     | .45       | 715         |                    |
| Dec. 19.....           | sl.         | "         | .66    | 4.30                            | 1.85              | 2.45   | .0016    | .0168       | .0162        | .0006          | .29       | .007         | 0            | .81 | .87     | .31       | 887         |                    |
| Monthly avg            | "           | "         | .63    | 5.05                            | 1.98              | 3.07   | .0026    | .0196       | .0186        | .0010          | .35       | .008         | 0            | .84 | .87     | .38       | 801         |                    |
| Yearly avg.,           | v. sl.      | v. sl.    | .45    | 3.86                            | 1.58              | 2.28   | .0015    | .0173       | .0163        | .0010          | .28       | .004         | 0            | .59 | .64     | .49       | 792         |                    |



*Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the North Branch of the Pawtuxet River, at Hope, above all sources of pollution from town and mill wastes, collected during the second and fourth week of the month.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |              | AMMONIA. |       |                |       | NITROGEN. |           |              |              |                  |           |             |                    |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------------|----------|-------|----------------|-------|-----------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. |              | Fixed.   | Free. | Albuminoid.    |       |           | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|                        |             |           |        |                                 | Total.            | In Solution. |          |       | In Suspension. |       |           |           |              |              |                  |           |             |                    |
| Jan. 10. ....          | v. sl.      | v. sl.    | .33    | 4.30                            | 1.30              | 3.00         | .0006    | .0120 | .0118          | .0002 | .30       | .007      | 0            | .46          | .71              | .50       | 920         |                    |
| Jan. 24. ....          | "           | "         | .32    | 3.80                            | 1.40              | 2.40         | .0006    | .0120 | .0118          | .0002 | .28       | .008      | 0            | .53          | .63              | .60       | 1128        |                    |
| Monthly avg.           | "           | "         | .33    | 4.05                            | 1.35              | 2.70         | .0006    | .0120 | .0118          | .0002 | .29       | .008      | 0            | .50          | .67              | .55       | 1024        |                    |
| Feb. 7. ....           | v. sl.      | v. sl.    | .27    | 3.95                            | 1.05              | 2.90         | .0008    | .0096 | .0094          | .0002 | .33       | .006      | 0            | .39          | .70              | .60       | 114         |                    |
| Feb. 21. ....          | "           | sl.       | .27    | 3.40                            | 1.05              | 2.35         | .0004    | .0110 | .0106          | .0004 | .24       | .004      | 0            | .36          | .68              | .50       | 140         |                    |
| Monthly avg.           | "           | "         | .27    | 3.68                            | 1.05              | 2.63         | .0006    | .0103 | .0100          | .0003 | .29       | .005      | 0            | .38          | .67              | .55       | 127         |                    |
| Mar. 7. ....           | sl.         | v. sl.    | .35    | 4.10                            | 1.40              | 2.70         | .0026    | .0188 | .0160          | .0028 | .30       | .010      | 0            | .49          | .68              | .45       | lost        |                    |
| Mar. 21. ....          | v. sl.      | sl.       | .35    | 3.55                            | 1.45              | 2.10         | .0004    | .0114 | .0110          | .0004 | .20       | .005      | 0            | .41          | .32              | .30       | 2421        |                    |
| Monthly avg.           | sl.         | "         | .35    | 3.83                            | 1.43              | 2.40         | .0015    | .0151 | .0135          | .0016 | .25       | .008      | 0            | .45          | .48              | .38       | ....        |                    |
| April 11. ....         | 0           | v. sl.    | .35    | 3.00                            | 1.10              | 1.90         | .0002    | .0136 | .0116          | .0020 | .17       | .001      | 0            | .44          | .32              | .30       | 395         |                    |
| April 30. ....         | v. sl.      | "         | .36    | 3.25                            | 1.30              | 1.95         | .0002    | .0122 | .0112          | .0010 | .20       | .003      | 0            | .45          | .32              | .35       | 1151        |                    |
| Monthly avg.           | "           | "         | .36    | 3.13                            | 1.20              | 1.93         | .0002    | .0129 | .0114          | .0015 | .19       | .002      | 0            | .45          | .32              | .33       | 773         |                    |

*Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the North Branch of the Pawtuxet River at Hope, above all sources of pollution from town and mill wastes, collected during the second and fourth week of the month.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPORATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |     | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|----------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|-----|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                     | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |     |                  |           |             |                    |
|                        |             |           |        |                            |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |     |                  |           |             |                    |
| May 9.....             | v. sl.      | v. sl.    | .35    | 4.05                       | 1.30              | 2.75   | .0002    | .0142       | .0132        | .0010          | .25       | .005         | 0            | .45 | .56              | .44       | 325         |                    |
| May 22.....            | "           | trace.    | .50    | 3.50                       | 1.35              | 2.15   | .0002    | .0160       | .0158        | .0002          | .20       | .005         | 0            | .60 | .48              | .48       | 561         |                    |
| Monthly avg.           | "           | v. sl.    | .43    | 3.78                       | 1.33              | 2.45   | .0002    | .0151       | .0145        | .0006          | .23       | .005         | 0            | .53 | .52              | .46       | 443         |                    |
| June 5.....            | v. sl.      | v. sl.    | .42    | 4.00                       | 1.75              | 2.25   | .0002    | .0148       | .0136        | .0012          | .20       | .005         | 0            | .52 | .48              | .48       | 316         |                    |
| June 20.....           | "           | "         | .41    | 3.45                       | 1.60              | 1.85   | .0002    | .0122       | .0120        | .0002          | .22       | .003         | 0            | .50 | .63              | .55       | 864         |                    |
| Monthly avg.           | "           | "         | .42    | 3.73                       | 1.68              | 2.05   | .0002    | .0135       | .0128        | .0007          | .21       | .004         | 0            | .51 | .56              | .52       | 590         |                    |
| July 11.....           | v. sl.      | v. sl.    | .40    | 3.90                       | 1.55              | 2.35   | .0008    | .0188       | .0170        | .0018          | .25       | .004         | 0            | .50 | .63              | .63       | 1364        |                    |
| July 25.....           | "           | "         | .40    | 3.80                       | 1.55              | 2.25   | .0008    | .0192       | .0190        | .0002          | .22       | .003         | 0            | .47 | .63              | .65       | 25          |                    |
| Monthly avg.           | "           | "         | .40    | 3.85                       | 1.55              | 2.30   | .0008    | .0190       | .0180        | .0010          | .24       | .004         | 0            | .49 | .63              | .64       | 695         |                    |
| Aug. 8 .....           | v. sl.      | v. sl.    | .35    | 3.55                       | 1.25              | 2.30   | .0002    | .0184       | .0180        | .0004          | .24       | .003         | 0            | .48 | .55              | .53       | 2038        |                    |
| Aug. 22.....           | "           | "         | .35    | 4.45                       | 1.70              | 2.75   | .0002    | .0192       | .0176        | .0016          | .23       | .002         | 0            | .51 | 1.27             | .68       | 154         |                    |
| Monthly avg.           | "           | "         | .35    | 4.00                       | 1.48              | 2.52   | .0002    | .0188       | .0178        | .0010          | .24       | .003         | 0            | .50 | .91              | .62       | 1096        |                    |

*Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the North Branch of the Pawtuxet River, at Hope, above all sources of pollution from town and mill wastes, collected during the second and fourth week of the month.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE, |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |           |             |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Sept. 5.....           | v. sl.      | v. sl.    | .36    | 3.85                            | 1.45              | 2.40   | .0006    | .0184       | .0174        | .0010          | .21       | .004         | 0            | .46              | .71       | .73         | 159                |
| Sept. 27.....          | "           | "         | .30    | 4.35                            | 1.45              | 2.90   | .0002    | .0148       | .0136        | .0012          | .28       | .003         | 0            | .36              | .95       | .65         | 173                |
| Monthly avg.           | "           | "         | .33    | 4.10                            | 1.45              | 2.65   | .0004    | .0166       | .0155        | .0011          | .25       | .004         | 0            | .41              | .83       | .69         | 166                |
| Oct. 10.....           | v. sl.      | v. sl.    | .54    | 5.15                            | 2.25              | 2.90   | .0002    | .0228       | .0218        | .0010          | .29       | .005         | 0            | .85              | .95       | .50         | 198                |
| Oct. 24.....           | "           | "         | .69    | 5.10                            | 2.05              | 3.05   | .0006    | .0212       | .0198        | .0014          | .37       | .005         | 0            | .91              | 1.08      | .53         | 311                |
| Monthly avg.           | "           | "         | .62    | 5.13                            | 2.15              | 2.98   | .0004    | .0220       | .0208        | .0012          | .33       | .005         | 0            | .88              | 1.02      | .52         | 255                |
| Nov. 7.....            | v. sl.      | v. sl.    | .37    | 3.55                            | 1.50              | 2.05   | .0006    | .0142       | .0134        | .0008          | .32       | .005         | 0            | .49              | .71       | .60         | 208                |
| Nov. 21.....           | "           | trace.    | .28    | 3.90                            | 1.35              | 2.55   | .0006    | .0120       | .0108        | .0012          | .32       | .005         | 0            | .51              | .79       | .58         | 513                |
| Monthly avg.           | "           | v. sl.    | .33    | 3.73                            | 1.43              | 2.30   | .0006    | .0131       | .0121        | .0010          | .32       | .005         | 0            | .50              | .75       | .59         | 361                |
| Dec. 5.....            | v. sl.      | v. sl.    | .55    | 4.65                            | 1.65              | 3.00   | .0010    | .0176       | .0170        | .0006          | .26       | .006         | 0            | .77              | .71       | .45         | 1099               |
| Dec. 19.....           | sl.         | trace.    | .62    | 3.70                            | 1.95              | 1.75   | .0008    | .0144       | .0136        | .0008          | .29       | .007         | 0            | .78              | .87       | .35         | 1396               |
| Monthly avg.           | "           | v. sl.    | .59    | 4.18                            | 1.80              | 2.38   | .0009    | .0160       | .0153        | .0007          | .28       | .007         | 0            | .78              | .79       | .40         | 1248               |
| Yearly avg..           | v. sl.      | v. sl.    | .79    | 3.93                            | 1.49              | 2.44   | .0005    | .0154       | .0145        | .0009          | .26       | .004         | 0            | .53              | .68       | .52         | 694                |

*Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the Tap in the Laboratory of the State Board of Health in Providence, during the second and fourth week of the month.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPORATION. |                   |        | AMMONIA. |             |              | Chlorine. | NITROGEN.    |              |                | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|----------------------------|-------------------|--------|----------|-------------|--------------|-----------|--------------|--------------|----------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                     | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |           | As Nitrates. | As Nitrites. |                |                  |           |             |                    |
|                        |             |           |        |                            |                   |        |          | Total.      | In Solution. |           |              |              | In Suspension. |                  |           |             |                    |
| Aug. 8.....            | sl.         | sl.       | .33    | 5.60                       | 1.60              | 4.00   | .0002    | .0188       | .0178        | .0010     | .45          | .011         | trace.         | .40              | 1.69      | 1.15        | 122                |
| Aug. 22.....           | v. sl.      | v. sl.    | .33    | 5.70                       | 1.55              | 4.15   | .0002    | .0190       | .0172        | .0018     | .44          | .018         | trace.         | .39              | 1.95      | .97         | 106                |
| Monthly avg.           | sl.         | sl.       | .33    | 5.65                       | 1.58              | 4.07   | .0002    | .0189       | .0175        | .0014     | .45          | .015         | trace.         | .40              | 1.82      | 1.06        | 114                |
| Sept. 5.....           | v. sl.      | sl.       | .35    | 6.05                       | 1.80              | 4.25   | .0008    | .0216       | .0174        | .0042     | .44          | .010         | trace.         | .41              | 1.56      | .95         | 363                |
| Sept. 27.....          | sl.         | dist.     | .26    | 6.80                       | 1.90              | 4.90   | .0000    | .0216       | .0164        | .0052     | .50          | .012         | trace.         | .36              | 1.82      | 1.10        | 4650               |
| Monthly avg.           | "           | "         | .31    | 6.43                       | 1.85              | 4.58   | .0004    | .0216       | .0169        | .0047     | .47          | .011         | trace.         | .39              | 1.69      | 1.03        | 2507               |
| Oct. 10 .....          | v. sl.      | v. sl.    | .31    | 7.35                       | 2.10              | 5.25   | .0000    | .0230       | .0212        | .0008     | .54          | .010         | .0002          | .48              | 1.69      | 1.12        | 882                |
| Oct. 24.....           | dist.       | dec.      | .56    | 6.30                       | 2.15              | 4.15   | .0012    | .0266       | .0198        | .0068     | .54          | .010         | 0              | .74              | 1.82      | .97         | 229                |
| Monthly avg.           | "           | "         | .44    | 6.83                       | 2.13              | 4.70   | .0006    | .0243       | .0205        | .0038     | .54          | .010         | .0001          | .61              | 1.76      | 1.05        | 556                |
| Nov. 7.....            | sl.         | sl.       | .7     | 6.70                       | 1.95              | 4.75   | .0006    | .0261       | .0234        | .0030     | .56          | .010         | trace.         | .67              | 1.82      | 1.05        | 298                |
| Nov. 21.....           | "           | dist.     | .35    | 6.00                       | 1.80              | 4.20   | .0008    | .0242       | .0212        | .0030     | .53          | .010         | .0006          | .66              | 1.69      | 1.00        | 4836               |
| Monthly avg.           | "           | "         | .41    | 6.35                       | 1.88              | 4.47   | .0007    | .0253       | .0223        | .0030     | .55          | .010         | .0003          | .67              | 1.76      | 1.03        | 2567               |
| Dec. 5.....            | sl.         | sl.       | .      | 5.95                       | 2.05              | 3.90   | .0006    | .0224       | .0200        | .0024     | .49          | .016         | trace.         | .75              | 1.56      | .75         | 2604               |
| Dec. 19.....           | dist.       | v. sl.    | .70    | 5.35                       | 2.35              | 3.00   | .0006    | .0214       | .0190        | .0021     | .40          | .020         | .0002          | .81              | 1.50      | .55         | 2232               |
| Monthly avg            | "           | sl.       | .58    | 5.65                       | 2.20              | 3.45   | .0006    | .0219       | .0195        | .0024     | .45          | .018         | .0001          | .80              | 1.53      | .65         | 2418               |
| Yearly avg..           | sl.         | sl.       | .41    | 6.18                       | 1.93              | 4.25   | .0005    | .0224       | .0193        | .0031     | .50          | .013         | .0001          | .57              | 1.71      | .96         | 8161               |

*Chemical and Bacteriological Examination of the Water Supply of the City of Providence, giving the Average for the Years 1900-1901 Grouped for Comparison of the Quality of the Water at Different Points of the Supply.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | Color. | RESIDUE<br>ON EVAPO-<br>RATION |                   |        | AMMONIA. |             |              | Chlorine. | NITROGEN.    |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |                |
|------------------------|--------|--------------------------------|-------------------|--------|----------|-------------|--------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|----------------|
|                        |        | Total.                         | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |           | As Nitrates. | As Nitrites. |                  |           |             |                    |                |
|                        |        |                                |                   |        |          | Total.      | In Solution. |           |              |              |                  |           |             |                    | In Suspension. |
| Pettaconset—           |        |                                |                   |        |          |             |              |           |              |              |                  |           |             |                    |                |
| 1900.....              | .45    | 5.78                           | 1.90              | 3.88   | .0014    | .0222       | .0182        | .0040     | .46          | .014         | .0003            | .56       | 1.45        | 1.00 3395          |                |
| 1901.....              | .44    | 5.83                           | 2.10              | 3.73   | .0012    | .0248       | .0207        | .0041     | .42          | .013         | .0003            | .67       | 1.41        | .82 4032           |                |
| Washington—            |        |                                |                   |        |          |             |              |           |              |              |                  |           |             |                    |                |
| 1900.....              | .46    | 3.73                           | 1.49              | 2.24   | .0017    | .0173       | .0164        | .0009     | .28          | .006         | .0000            | .55       | .61         | .59 1072           |                |
| 1901.....              | .45    | 3.86                           | 1.58              | 2.28   | .0015    | .0173       | .0163        | .0010     | .28          | .004         | .0000            | .59       | .64         | .49 792            |                |
| Hope—                  |        |                                |                   |        |          |             |              |           |              |              |                  |           |             |                    |                |
| 1900.....              | .39    | 3.60                           | 1.38              | 2.22   | .0007    | .0155       | .0142        | .0013     | .25          | .007         | .0000            | .48       | .68         | .62 536            |                |
| 1901.....              | .79    | 3.93                           | 1.49              | 2.44   | .0005    | .0154       | .0145        | .0009     | .26          | .004         | .0000            | .53       | .68         | .52 694            |                |
| Laboratory Tap—        |        |                                |                   |        |          |             |              |           |              |              |                  |           |             |                    |                |
| 1900.....              | .....  | .....                          | .....             | .....  | .....    | .....       | .....        | .....     | .....        | .....        | .....            | .....     | .....       | .....              |                |
| 1901.....              | .41    | 6.18                           | 1.93              | 4.25   | .0005    | .0224       | .0193        | .0031     | .50          | .013         | .0001            | .57       | 1.71        | .96 8161           |                |

*Chemical and Bacteriological Examination of the Water Supply of the Pawtuxet Valley, controlled by the Pawtuxet Valley Water Company, the sample being taken in the village of Riverpoint.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |     | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|-----|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |     |                  |           |             |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |     |                  |           |             |                    |
| Jan. 15.....           | 0           | v. sl.    | .25    | 4.80                            | 2.20              | 2.60   | .0008    | .0160       | .0138        | .0022          | .47       | .027         | 0            | .38 | 1.11             | ....      | 69          |                    |
| Feb. 26. ....          | v. sl.      | "         | .21    | 4.40                            | 1.10              | 3.30   | .0008    | .0116       | .0112        | .0004          | .55       | .021         | 0            | .28 | 1.27             | .60       | 49          |                    |
| Mar. 19.....           | "           | 0         | .25    | 3.60                            | 1.35              | 2.25   | .0060    | .0128       | .0128        | .0000          | .38       | .032         | 0            | .35 | .79              | .40       | 916         |                    |
| April 17.....          | "           | v. sl.    | .22    | 3.30                            | 1.35              | 1.95   | .0002    | .0116       | .0104        | .0012          | .32       | .019         | 0            | .33 | .32              | .30       | 69          |                    |
| May 14. ...            | 0           | trace.    | .24    | 2.90                            | .95               | 1.95   | .0000    | .0134       | .0130        | .0004          | .31       | .005         | 0            | .36 | .63              | .50       | 495         |                    |
| June 10.....           | 0           | "         | .30    | 3.15                            | .85               | 2.30   | .0006    | .0144       | .0142        | .0002          | .26       | .006         | 0            | .38 | .48              | .58       | 17546       |                    |
| July 22.....           | 0           | "         | .35    | 3.70                            | 1.75              | 1.95   | .0002    | .0168       | .0166        | .0002          | .26       | .010         | 0            | .34 | .63              | .70       | 27          |                    |
| Aug. 26.....           | 0           | v. sl.    | .30    | 2.85                            | 1.00              | 1.85   | .0002    | .0166       | .0164        | .0002          | .27       | .003         | 0            | .29 | .71              | .70       | 178         |                    |
| Sept. 9.....           | v. sl.      | 0         | .22    | 4.00                            | 2.20              | 1.80   | .0006    | .0170       | .0168        | .0002          | .28       | .024         | 0            | .31 | .63              | .65       | 111         |                    |
| Oct. 14.....           | 0           | v. sl.    | .20    | 3.45                            | 1.50              | 1.95   | .0002    | .0166       | .0160        | .0006          | .33       | .003         | 0            | .29 | .85              | .67       | 5084        |                    |
| Nov. 18.....           | v. sl.      | trace.    | .21    | 3.25                            | 1.20              | 2.05   | .0008    | .0170       | .0170        | .0000          | .38       | .005         | 0            | .34 | .87              | .70       | 181         |                    |
| Dec. 16.....           | sl.         | v. sl.    | .34    | 3.85                            | 1.35              | 2.50   | .0014    | .0166       | .0162        | .0004          | .35       | .025         | 0            | .48 | .95              | .58       | 2914        |                    |
| Dec. 23.....           | "           | sl.       | .50    | 4.30                            | 1.75              | 2.55   | .0026    | .0220       | .0192        | .0028          | .40       | .024         | 0            | .69 | .95              | .50       | lost.       |                    |
| Dec. 23.....           | "           | "         | .45    | 3.85                            | 1.65              | 2.20   | .0022    | .0202       | .0184        | .0018          | .38       | .025         | 0            | .62 | .95              | .50       | 2790        |                    |
| Monthly avg.           | "           | "         | .43    | 4.00                            | 1.58              | 2.42   | .0021    | .0196       | .0179        | .0017          | .38       | .025         | 0            | .60 | .95              | .53       | 2852        |                    |
| Yearly avg..           | v. sl.      | v. sl.    | .29    | 3.67                            | 1.44              | 2.23   | .0012    | .0159       | .0151        | .0008          | .35       | .016         | 0            | .40 | .80              | .57       | 2341        |                    |



*Chemical and Bacteriological Examination of a Water Supply in the Pawtuxet Valley, taken from a supply known as Knight's Spring or Fountain, the sample being taken in the village of Riverpoint.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c c. |              |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|------------------|-----------|-------------|-------------------|--------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |           |             |                   | As Nitrites. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                  |           |             |                   |              |
| Jan. 15.....           | 0           | 0         | 0      | 4.85                            | 1.10              | 3.75   | .0000    | .0030       | .0030        | .0000          | .78       | .280         | 0                | .01       | 1.95        | .30               | 151          |
| Feb. 26.....           | 0           | 0         | 0      | 5.55                            | 1.90              | 3.65   | .0000    | .0034       | .0034        | .0000          | .72       | .280         | 0                | .00       | 1.95        | .30               | 26           |
| Mar. 19.....           | 0           | 0         | 0      | 5.60                            | 1.65              | 3.95   | .0002    | .0030       | .0030        | .0000          | .88       | .320         | 0                | .00       | 1.95        | .20               | 140          |
| April 17.....          | 0           | 0         | 0      | 7.10                            | 3.00              | 4.10   | .0000    | .0024       | .0024        | .0000          | .91       | .400         | 0                | .01       | 2.40        | .30               | 43           |
| May 14.....            | 0           | 0         | 0      | 7.10                            | 2.75              | 4.35   | .0000    | .0016       | .0016        | .0000          | .80       | .300         | 0                | .01       | 2.08        | .30               | 206          |
| June 10.....           | 0           | 0         | 0      | 6.20                            | 2.45              | 3.75   | .0000    | .0012       | .0012        | .0000          | .72       | .280         | 0                | .00       | 2.02        | .30               | 640          |
| July 22.....           | 0           | 0         | 0      | 6.00                            | 2.50              | 3.50   | .0000    | .0018       | .0018        | .0000          | .69       | .280         | 0                | .01       | 1.69        | .44               | 211          |
| Aug. 26.....           | 0           | 0         | 0      | 6.10                            | 1.75              | 4.35   | .0000    | .0010       | .0010        | .0000          | .70       | .260         | 0                | .00       | 1.82        | .40               | 16605        |
| Sept. 9.....           | 0           | 0         | 0      | 6.90                            | 2.05              | 4.85   | .0000    | .0014       | .0014        | .0000          | .66       | .260         | 0                | .00       | 1.95        | .40               | 435          |
| Oct. 14.....           | 0           | 0         | 0      | 6.05                            | 2.35              | 3.70   | .0000    | .0012       | .0012        | .0000          | .72       | .300         | 0                | .01       | 1.89        | .36               | 435          |
| Nov. 18.....           | 0           | 0         | 0      | 6.15                            | 2.35              | 3.80   | .0000    | .0020       | .0020        | .0000          | .78       | .320         | 0                | .01       | 1.95        | .30               | 132          |
| Dec. 16.....           | 0           | 0         | 0      | 7.90                            | 2.60              | 5.30   | .0032    | .0020       | .0020        | .0000          | 1.08      | .458         | .0005            | .03       | 2.41        | .30               | 2015         |
| Dec. 23.....           | 0           | 0         | 0      | 7.55                            | 2.40              | 5.15   | .0014    | .0022       | .0023        | .0000          | 1.12      | .440         | trace.           | .03       | 2.28        | .28               | 46           |
| Monthly avg.           | 0           | 0         | 0      | 7.73                            | 2.50              | 5.23   | .0023    | .0021       | .0021        | .0000          | 1.10      | .449         | .0003            | .03       | 2.35        | .29               | 1031         |
| Yearly avg..           | 0           | 0         | 0      | 6.29                            | 2.22              | 4.17   | .0004    | .0020       | .0020        | .0000          | .81       | .321         | 0                | .01       | 2.03        | .32               | 1622         |

*Chemical and Bacteriological Examination of a Water Supply in the Pawtuxet Valley, controlled by the Coventry Water Company, the sample being taken in the village of Arctic Centre.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |             |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |              |
|------------------------|-------------|-------------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|------------------|-----------|-------------|--------------------|--------------|
|                        | Turbidity.  | Sediment.   | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |           |             |                    | As Nitrites. |
|                        |             |             |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                  |           |             |                    |              |
| Jan. 14.....           | 0           | 0           | .05    | 2.30                            | .75               | 1.55   | .0008    | .0084       | .0084        | .0000          | .30       | .004         | 0                | .08       | .32         | .20                | 29           |
| Feb. 26 .....          | 0           | 0           | .02    | 2.40                            | .80               | 1.60   | .0002    | .0082       | .0082        | .0000          | .32       | .002         | 0                | .09       | .32         | .25                | 13           |
| Mar. 19.....           | 0           | 0           | .05    | 2.15                            | .55               | 1.60   | .0004    | .0082       | .0082        | .0000          | .32       | .003         | 0                | .07       | .24         | .30                | 15           |
| April 17.....          | 0           | 0           | .03    | 2.10                            | .35               | 1.75   | .0006    | .0060       | .0060        | .0000          | .26       | .009         | 0                | .11       | .16         | .20                | 114          |
| May 14.....            | 0           | 0           | .03    | 2.30                            | .80               | 1.50   | 0        | .0066       | .0066        | .0000          | .27       | .002         | 0                | .07       | .32         | .20                | 56           |
| June 10.....           | 0           | 0           | .03    | 2.05                            | .35               | 1.70   | 0        | .0070       | .0070        | .0000          | .26       | .003         | 0                | .05       | .32         | .25                | 7998         |
| July 22.....           | 0           | 0           | .03    | 2.35                            | 1.00              | 1.35   | .0002    | .0070       | .0070        | .0000          | .27       | .005         | 0                | .07       | .32         | .30                | 57           |
| Aug. 26 .....          | 0           | 0           | .01    | 1.85                            | .50               | 1.35   | 0        | .0074       | .0074        | 0              | .27       | .003         | 0                | .07       | .32         | .29                | 7969         |
| Sept. 9 .....          | 0           | trace.      | .00    | 2.40                            | .75               | 1.65   | 0        | .0072       | .0072        | 0              | .27       | .001         | 0                | .08       | .32         | .26                | 183          |
| Oct. 14.....           | 0           | 0           | .04    | 2.35                            | .90               | 1.45   | 0        | .0080       | .0080        | 0              | .32       | .003         | 0                | .09       | .32         | .29                | 17           |
| Nov. 18 .....          | 0           | 0           | .06    | 1.70                            | .55               | 1.15   | .0002    | .0074       | .0074        | 0              | .30       | .002         | 0                | .09       | .24         | .30                | 10           |
| Dec. 16 .....          | v. sl       | iron<br>sl. | .16    | 2.15                            | .90               | 1.25   | .0004    | .0068       | .0068        | 0              | .30       | .002         | 0                | .08       | .40         | .32                | 19           |
| Yearly avg..           | 0           | 0           | .04    | 2.17                            | .68               | 1.49   | .0002    | .0074       | .0074        | .0000          | .29       | .003         | 0                | .08       | .30         | .20                | 138.2        |

*Chemical and Bacteriological Examination of the Water Supply of the town of East Greenwich, the sample being taken from tap in the office of the health officer.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |      | AMMONIA. |       |             |              | NITROGEN.      |           |              |              |                  |           |             |                    |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|------|----------|-------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total                           | Loss on Ignition. |      | Fixed.   | Free. | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|                        |             |           |        |                                 |                   |      |          |       | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| April 22.....          | v. sl.      | v. sl.    | .48    | 4.35                            | 1.70              | 2.65 | 0        | .0132 | .0114       | .0018        | .38            | .008      | 0            | .54          | .63              | .50       | 1123        |                    |
| May 22.....            | 0           | v. sl.    | .56    | 4.30                            | 1.60              | 2.70 | .0002    | .0140 | .0134       | .0006        | .37            | .010      | 0            | .61          | .79              | .69       | 276         |                    |
| June 24.....           | 0           | v. sl.    | .25    | 3.80                            | .90               | 2.90 | .0004    | .0078 | .0076       | .0002        | .39            | .008      | 0            | .24          | 1.03             | 1.04      | 11408       |                    |
| July 22.....           | v. sl.      | sl.       | .40    | 4.30                            | 1.50              | 2.80 | 0        | .0124 | .0106       | .0018        | .42            | .006      | 0            | .41          | 1.11             | .87       | 1860        |                    |
| Aug. 19.....           | 0           | v. sl.    | .12    | 4.85                            | 1.30              | 3.55 | 0        | .0082 | .0080       | .0002        | .41            | .011      | 0            | .17          | 1.43             | 1.16      | 185         |                    |
| Sept. 9.....           | 0           | v. sl.    | .25    | 4.35                            | 1.05              | 3.30 | 0        | .0078 | .0070       | .0008        | .41            | .008      | 0            | .24          | 1.35             | 1.06      | 43          |                    |
| Oct. 31.....           | 0           | v. sl.    | .34    | 4.90                            | 1.35              | 3.55 | .0006    | .0108 | .0092       | .0016        | .45            | .013      | 0            | .35          | 1.19             | 1.10      | 3038        |                    |
| Nov. 18.....           | 0           | sl.       | .20    | 3.80                            | .90               | 2.90 | .0004    | .0066 | .0064       | .0002        | .37            | .005      | 0            | .25          | 1.43             | 1.00      | 85          |                    |
| Dec. 16.....           | v. sl.      | dist.     | .98    | 5.95                            | 2.80              | 3.15 | .0012    | .0216 | .0204       | .0012        | .44            | .015      | 0            | 1.17         | 1.43             | .45       | 1280        |                    |
| Yearly avg..           | v. sl.      | sl.       | .40    | 4.51                            | 1.45              | 3.06 | .0003    | .0114 | .0104       | .0010        | .40            | .009      | 0            | .44          | 1.13             | .87       | 2144        |                    |

*Chemical and Bacteriological Examination of the Water Supply of Kent County, giving the Average for the Years 1900-1901, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | Color. | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |       |
|------------------------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|-------|
|                        |        | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |           |             |                    |       |
|                        |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |       |
| Pawtuxet Valley—       |        |                                 |                   |        |          |             |              |                |           |              |              |                  |           |             |                    |       |
| 1900.....              | .33    | 3.69                            | 1.39              | 2.30   | .0005    | .0166       | .0154        | .0012          | .32       | .011         | .0000        | .36              | .63       | .79         | 384                |       |
| 1901.....              | .29    | 3.67                            | 1.44              | 2.23   | .0012    | .0159       | .0151        | .0008          | .35       | .016         | .0000        | .40              | .80       | .57         | 2341               |       |
| Knight's Spring—       |        |                                 |                   |        |          |             |              |                |           |              |              |                  |           |             |                    |       |
| 1900.....              | .00    | 5.56                            | 2.11              | 3.45   | .0001    | .0013       | .0013        | .0000          | .64       | .237         | .0000        | .01              | 1.64      | .28         | 1142               |       |
| 1901.....              | .00    | 6.39                            | 2.22              | 4.17   | .0004    | .0020       | .0020        | .0000          | .81       | .321         | .0000        | .01              | 2.03      | .32         | 1622               |       |
| Coventry Water Co.—    |        |                                 |                   |        |          |             |              |                |           |              |              |                  |           |             |                    |       |
| 1900.....              | .05    | 2.04                            | .60               | 1.44   | .0003    | .0063       | .0063        | .0000          | .28       | .005         | .0000        | .06              | .27       | .30         | 2154               |       |
| 1901.....              | .04    | 2.17                            | .68               | 1.49   | .0002    | .0074       | .0074        | .0000          | .29       | .003         | .0000        | .08              | .30       | .26         | 1382               |       |
| East Greenwich—        |        |                                 |                   |        |          |             |              |                |           |              |              |                  |           |             |                    |       |
| 1900.....              | .....  | .....                           | .....             | .....  | .....    | .....       | .....        | .....          | .....     | .....        | .....        | .....            | .....     | .....       | .....              | ..... |
| 1901.....              | .40    | 4.51                            | 1.45              | 3.06   | .0003    | .0114       | .0104        | .0010          | .40       | .009         | .0000        | .44              | 1.13      | .87         | 2144               |       |

*Chemical and Bacteriological Examination of the Water Supply of the City of Woonsocket, the sample being taken from the First Impounding Reservoir.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROOEN. |              |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |           |             |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Jan. 14.....           | dec.        | sl.       | .65    | 4.90                            | 2.45              | 2.45   | .0020    | .0490       | .0398        | .0092          | .28       | .003         | 0            | .86              | .87       | .60         | 181                |
| Feb. 19.....           | sl.         | "         | .67    | 4.35                            | 2.70              | 1.65   | .0066    | .0514       | .0328        | .0186          | .28       | .007         | 0            | .91              | .87       | .60         | 29                 |
| Mar. 18.....           | v. sl.      | "         | .55    | 3.45                            | 1.70              | 1.75   | .0006    | .0350       | .0246        | .0104          | .22       | .003         | 0            | .64              | .48       | .40         | 2542               |
| April 15.....          | sl.         | "         | .47    | 3.55                            | 1.55              | 2.00   | .0002    | .0272       | .0182        | .0090          | .14       | .002         | 0            | .70              | .40       | .45         | 287                |
| May 13.....            | "           | "         | .56    | 3.80                            | 1.45              | 2.35   | .0002    | .0840       | .0214        | .0126          | .28       | .002         | 0            | .78              | .56       | .40         | 73                 |
| June 17.....           | "           | dist.     | .58    | 4.10                            | 2.50              | 1.60   | .0002    | .0528       | .0284        | .0244          | .19       | .003         | 0            | .84              | .48       | .50         | 146                |
| July 22.....           | "           | sl.       | .65    | 4.95                            | 3.10              | 1.85   | .0006    | .0462       | .0316        | .0146          | .22       | .004         | 0            | .88              | .63       | .46         | 848                |
| Aug. 19.....           | dist.       | "         | .65    | 4.80                            | 3.05              | 1.75   | .0002    | .0510       | .0356        | .0154          | .21       | .002         | 0            | .82              | .63       | .46         | 488                |
| Sept. 9.....           | dist.       | dist.     | .61    | 4.05                            | 2.35              | 1.70   | .0002    | .0562       | .0400        | .0162          | .22       | .004         | 0            | .86              | .48       | .45         | 226                |
| Oct. 21.....           | dec.        | sl.       | .65    | 4.50                            | 2.65              | 1.85   | .0002    | .0552       | .0362        | .0190          | .23       | .002         | .0002        | .86              | .48       | .40         | 1302               |
| Nov. 18.....           | dist.       | "         | .50    | 3.65                            | 2.50              | 1.15   | .0086    | .0428       | .0362        | .0066          | .21       | .005         | 0            | .83              | .48       | .38         | 1063               |
| Dec. 16.....           | sl.         | dist.     | .45    | 3.65                            | 2.15              | 1.50   | .0208    | .0614       | .0852        | .0262          | .22       | .000         | 0            | .80              | .56       | .60         | 2046               |
| Yearly avg..           | sl.         | sl.       | .58    | 4.15                            | 2.35              | 1.80   | .0034    | .0469       | .0317        | .0152          | .24       | .003         | 0            | .82              | .58       | .48         | 819                |

*Chemical and Bacteriological Examination of the Water Supply of the City of Woonsocket, the sample being taken from the Pumping Station.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              |              |                  |           |             |                    |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Jan. 14.....           | sl.         | v. sl.    | .55    | 4.70                            | 1.90              | 2.80   | .0010    | .0226       | .0224        | .0002          | .28       | .003         | 0            | .74              | 1.11      | .65         | 933                |
| Feb. 19.....           | v. sl.      | v. sl.    | .53    | 3.75                            | 2.00              | 1.75   | .0076    | .0252       | .0204        | .0048          | .29       | .007         | 0            | .63              | 1.11      | .76         | 104                |
| Mar. 18.....           | v. sl.      | v. sl.    | .47    | 3.40                            | 1.60              | 1.80   | .0020    | .0208       | .0198        | .0010          | .24       | .003         | 0            | .54              | .79       | .40         | 2852               |
| April 15.....          | v. sl.      | v. sl.    | .47    | 3.00                            | 1.20              | 1.80   | 0        | .0172       | .0164        | .0008          | .14       | .005         | 0            | .61              | .48       | .50         | 304                |
| May 19.....            | v. sl.      | v. sl.    | .57    | 3.30                            | 1.45              | 1.85   | .0010    | .0200       | .0174        | .0026          | .24       | .002         | 0            | .75              | .71       | .55         | 151                |
| June 17.....           | v. sl.      | sl.       | .65    | 3.60                            | 1.70              | 1.90   | .0046    | .0204       | .0186        | .0018          | .21       | .003         | 0            | .68              | .63       | .50         | 729                |
| July 22.....           | v. sl.      | v. sl.    | .81    | 5.20                            | 2.50              | 2.70   | .0092    | .0296       | .0284        | .0012          | .23       | .010         | trace.       | .86              | 1.03      | .70         | 29                 |
| Aug. 19.....           | sl.         | sl.       | .68    | 5.05                            | 2.60              | 2.45   | .0668    | .0274       | .0268        | .0006          | .21       | .004         | 0            | .71              | 1.11      | .65         | 51                 |
| Sept. 9.....           | sl.         | v. sl.    | .60    | 4.20                            | 1.95              | 2.25   | .0010    | .0320       | .0282        | .0038          | .23       | .004         | 0            | .72              | .87       | .60         | 146                |
| Oct. 21.....           | sl.         | v. sl.    | .92    | 5.40                            | 2.80              | 2.60   | .0002    | .0334       | .0322        | .0012          | .23       | .006         | .0002        | 1.03             | 1.11      | .55         | 340                |
| Nov. 18.....           | sl.         | sl.       | .51    | 4.25                            | 2.00              | 2.25   | .0028    | .0260       | .0260        | 0              | .30       | .007         | 0            | .80              | 1.11      | .50         | 794                |
| Dec. 16.....           | sl.         | v. sl.    | .82    | 4.50                            | 2.30              | 2.20   | .0022    | .0218       | .0210        | .0008          | .22       | .012         | 0            | 1.11             | 1.03      | .35         | 1154               |
| Yearly avg..           | v. sl.      | v. sl.    | .63    | 4.20                            | 2.00              | 2.20   | .0032    | .0247       | .0231        | .0016          | .24       | .006         | 0            | .68              | .92       | .56         | 882                |



*Chemical and Bacteriological Examination of the Water Supply of the City of Woonsocket, the sample being taken from the tap in the office of the Superintendent of the Woonsocket Water Works.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |             | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------|-------------|-----------|-------------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color.      | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. |                  |           |             |                    |
|                        |             |           |             |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Jan. 14.....           | v. sl.      | 0         | .27         | 4.90                            | 1.45              | 3.45   | .0006    | .0150       | .0150        | 0              | .28       | .009         | 0            | .45              | 1.27      | .80         | 296                |
| Feb. 19.....           | v. sl.      | v. sl.    | .53         | 4.35                            | 1.75              | 2.60   | .0074    | .0258       | .0200        | .0058          | .29       | .007         | 0            | .62              | 1.11      | .70         | 109                |
| Mar. 18.....           | 0           | v. sl.    | .47         | 3.40                            | 1.55              | 1.85   | .0034    | .0210       | .0182        | .0028          | .24       | .003         | 0            | .55              | .79       | .40         | 5208               |
| April 15.....          | v. sl.      | v. sl.    | .40         | 3.10                            | 1.15              | 1.95   | .0002    | .0158       | .0134        | .0024          | .16       | .008         | 0            | .53              | .48       | .50         | 250                |
| May 18.....            | sl.         | dec.      | Iron<br>.73 | 5.40                            | 2.20              | 3.20   | .0002    | .0334       | .0206        | .0128          | .24       | .002         | 0            | .89              | .87       | .60         | 844                |
| June 17.....           | sl.         | dec.      | .76         | 4.10                            | 1.85              | 2.25   | .0010    | .0306       | .0272        | .0034          | .21       | .006         | 0            | .91              | .63       | .61         | 225                |
| July 22.....           | dist.       | dist.     | .85         | 5.20                            | 2.55              | 2.65   | .0014    | .0382       | .0262        | .0120          | .23       | .010         | 0            | 1.01             | 1.03      | .70         | 422                |
| Aug. 19.....           | dist.       | dlst.     | .76         | 5.65                            | 3.35              | 2.30   | .0032    | .0328       | .0252        | .0076          | .21       | .003         | 0            | .81              | 1.11      | .65         | 1498               |
| Sept. 9.....           | dist.       | sl.       | .60         | 4.80                            | 2.10              | 2.70   | .0002    | .0370       | .0272        | .0098          | .23       | .004         | 0            | .72              | .87       | .68         | 190                |
| Oct. 21.....           | sl.         | v. sl.    | 7.02        | 6.00                            | 3.05              | 2.95   | .0002    | .0338       | .0316        | .0022          | .23       | .006         | 0            | 1.10             | 1.35      | .55         | 504                |
| Nov. 18.....           | sl.         | v. sl.    | .51         | 4.35                            | 2.35              | 2.00   | .0024    | .0274       | .0254        | .0020          | .30       | .008         | 0            | .77              | 1.11      | .50         | 546                |
| Dec. 16.....           | sl.         | trace     | .82         | 4.70                            | ....              | ....   | .0014    | .0216       | .0206        | .0010          | .22       | .002         | 0            | 1.11             | 1.11      | .35         | 4080               |
| Yearly avg..           | sl.         | sl.       | .64         | 4.66*                           | 2.11              | 2.55   | .0017    | .0277       | .0226        | .0051          | .24       | .006         | 0            | .79              | .98       | .59         | 1177               |

\* Average of eleven months only to agree with averages on loss on ignition and fixed.

*Chemical and Bacteriological Examination of the Water Supply of the City of Woonsocket, Giving the Average for the Years 1900-1901, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION.          | RESIDUE<br>ON EVAPO-<br>RATION. |        |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |     | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|---------------------------------|---------------------------------|--------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|-----|------------------|-----------|-------------|--------------------|
|                                 | Color.                          | Total. | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |     |                  |           |             |                    |
|                                 |                                 |        |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |     |                  |           |             |                    |
| Woonsocket,<br>Reservoir 3—     |                                 |        |                   |        |          |             |              |                |           |              |              |     |                  |           |             |                    |
| 1900.....                       | .81                             | 4.85   | 2.87              | 1.98   | .0010    | .0507       | .0350        | .0157          | .24       | .006         | .0000        | .96 | .75              | .65       | 693         |                    |
| 1901.....                       | .58                             | 4.15   | 2.35              | 1.80   | .0034    | .0469       | .0317        | .0152          | .22       | .003         | .0600        | .82 | .58              | .48       | 819         |                    |
| Woonsocket,<br>Pumping Station— |                                 |        |                   |        |          |             |              |                |           |              |              |     |                  |           |             |                    |
| 1900.....                       | .72                             | 4.71   | 2.27              | 2.44   | .0017    | .0311       | .0256        | .0055          | .25       | .007         | .0000        | .81 | .87              | .70       | 668         |                    |
| 1901.....                       | .63                             | 4.20   | 2.00              | 2.20   | .0032    | .0247       | .0231        | .0016          | .24       | .006         | .0000        | .68 | .92              | .56       | 882         |                    |
| Woonsocket,<br>Supt's Office—   |                                 |        |                   |        |          |             |              |                |           |              |              |     |                  |           |             |                    |
| 1900.....                       | .70                             | 4.92   | 2.31              | 2.61   | .0014    | .0292       | .0232        | .0060          | .24       | .010         | .0000        | .77 | .88              | .75       | 370         |                    |
| 1901.....                       | .64                             | 4.66   | 2.11              | 2.55   | .0017    | .0277       | .0226        | .0051          | .24       | .006         | .0000        | .79 | .98              | .59       | 1177        |                    |

*Chemical and Bacteriological Examination of the Water Supply of the City of Pawtucket, the sample being taken from the Intake at the Happy Hollow Pond.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPORATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|----------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                     | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |           |             |                    |
|                        |             |           |        |                            |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Jan 28.....            | v. sl.      | v. sl.    | .24    | 4.75                       | 1.30              | 3.45   | .0004    | .0118       | .0116        | .0002          | .40       | .010         | 0            | .30              | 1.69      | 1.10        | 3658               |
| Feb. 25.....           | v. sl.      | v. sl.    | .20    | 4.45                       | 1.10              | 3.35   | .0001    | .0142       | .0140        | .0002          | .35       | .013         | 0            | .22              | 1.56      | 1.15        | 844                |
| Mar. 25.....           | v. sl.      | v. sl.    | .34    | 3.80                       | 1.65              | 2.15   | .0002    | .0186       | .0172        | .0014          | .30       | .007         | 0            | .47              | 1.11      | .50         | 244                |
| April 29.....          | v. sl.      | v. sl.    | .35    | 3.60                       | 1.70              | 1.90   | .0002    | .0158       | .0146        | .0012          | .22       | .005         | 0            | .45              | .95       | .60         | 425                |
| May 27.....            | v. sl.      | v. sl.    | .43    | 4.25                       | 1.65              | 2.60   | .0014    | .0174       | .0174        | .0000          | .25       | .006         | 0            | .60              | 1.11      | .85         | 770                |
| June 24.....           | v. sl.      | v. sl.    | .25    | 4.40                       | 1.75              | 2.65   | .0020    | .0172       | .0152        | .0020          | .33       | .010         | 0            | .32              | 1.35      | 1.22        | 91                 |
| July 29.....           | v. sl.      | v. sl.    | .30    | 4.85                       | 1.60              | 3.25   | .0010    | .0202       | .0190        | .0012          | .35       | .010         | .0002        | .31              | 1.50      | 1.35        | 3782               |
| Aug. 26.....           | v. sl.      | sl.       | .27    | 3.65                       | 1.15              | 2.50   | .0002    | .0216       | .0194        | .0022          | .32       | .004         | .0000        | .31              | 1.43      | 1.17        | 75                 |
| Sept. 30.....          | sl.         | v. sl.    | .32    | 4.10                       | 1.20              | 2.90   | .0028    | .0170       | .0152        | .0018          | .30       | .007         | 0            | .30              | 1.50      | 1.00        | ....               |
| Oct. 28.....           | v. sl.      | sl.       | .25    | 4.00                       | 1.15              | 2.85   | .0030    | .0176       | .0174        | .0002          | .31       | .006         | 0            | .34              | 1.56      | 1.05        | 68                 |
| Nov. 25.....           | v. sl.      | sl.       | .20    | 4.20                       | 1.45              | 2.75   | .0024    | .0144       | .0138        | .0006          | .33       | .005         | 0            | .24              | 1.43      | .98         | 854                |
| Dec. 23.....           | v. sl.      | sl.       | .56    | 4.65                       | 1.55              | 3.10   | .0014    | .0164       | .0160        | .0004          | .37       | .011         | 0            | .71              | 1.56      | .80         | 2170               |
| Yearly avg..           | v. sl.      | v. sl.    | .31    | 4.23                       | 1.44              | 2.79   | .0012    | .0169       | .0159        | .0010          | .32       | .008         | 0            | .38              | 1.40      | .98         | 1135               |

*Chemical and Bacteriological Examination of the Water Supply of the City of Pawtucket, the sample being taken from the tap in the Boiler-room of Pumping Station No. 3.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPORATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |                  |           |             |                    |
|------------------------|-------------|-----------|--------|----------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                     | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|                        |             |           |        |                            |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Jan. 28.....           | v. sl.      | 0         | .24    | 4.40                       | 1.15              | 3.25   | .0004    | .0104       | .0104        | .0000          | .40       | .010         | 0            | .27              | 1.69      | 1.10        | 1984               |
| Feb. 25.....           | 0           | trace     | .20    | 4.45                       | 1.10              | 3.35   | .0006    | .0094       | .0090        | .0004          | .35       | .013         | 0            | .22              | 1.56      | 1.15        | 532                |
| Mar. 25.....           | v. sl.      | trace     | .33    | 3.55                       | 1.40              | 2.15   | .0002    | .0170       | .0162        | .0008          | .30       | .007         | 0            | .46              | 1.11      | .50         | 937                |
| April 29.....          | v. sl.      | v. sl.    | .35    | 3.80                       | 1.40              | 2.40   | .0002    | .0132       | .0126        | .0006          | .22       | .005         | 0            | .41              | .95       | .60         | 299                |
| May 27.....            | v. sl.      | trace     | .43    | 4.05                       | 1.60              | 2.45   | .0012    | .0162       | .0162        | .0000          | .25       | .006         | 0            | .56              | 1.11      | .85         | 73                 |
| June 24.....           | v. sl.      | trace     | .25    | 4.10                       | 1.25              | 2.85   | .0020    | .0136       | .0134        | .0002          | .33       | .011         | 0            | .28              | 1.35      | 1.14        | 28,520             |
| July 29.....           | v. sl.      | trace     | .30    | 4.70                       | 1.55              | 3.15   | .0008    | .0170       | .0158        | .0012          | .35       | .011         | .0002        | .30              | 1.50      | 1.25        | 1140               |
| Aug. 26.....           | v. sl.      | v. sl.    | .26    | 3.70                       | 1.30              | 2.40   | .0002    | .0165       | .0164        | .0004          | .32       | .005         | 0            | .25              | 1.27      | 1.05        | 1848               |
| Sept. 30.....          | v. sl.      | 0         | .31    | 3.85                       | 1.15              | 2.70   | .0004    | .0120       | .0120        | .0000          | .30       | .010         | 0            | .28              | 1.50      | 1.00        | lost               |
| Oct. 28.....           | v. sl.      | v. sl.    | .25    | 4.05                       | 1.15              | 2.90   | .0018    | .0134       | .0134        | .0000          | .31       | .006         | 0            | .33              | 1.56      | 1.00        | 84                 |
| Nov. 25.....           | v. sl.      | trace     | .20    | 4.20                       | 1.50              | 2.70   | .0014    | .0128       | .0128        | 0              | .33       | .005         | 0            | .24              | 1.43      | .98         | 372                |
| Dec. 23.....           | v. sl.      | v. sl.    | .55    | 4.80                       | 1.85              | 2.95   | .0008    | .0152       | .0150        | .0002          | .37       | .016         | 0            | .70              | 1.50      | .80         | 3224               |
| Yearly avg..           | v. sl.      | v. sl.    | .31    | 4.14                       | 1.37              | 2.77   | .0008    | .0139       | .0136        | .0003          | .32       | .009         | 0            | .36              | 1.38      | .95         | 3547               |

*Chemical and Bacteriological Examination of the Water Supply of the City of Pawtucket, Giving the Average for the Years 1900-1901, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION.            | Color. | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |  |
|-----------------------------------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|--|
|                                   |        | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. |                  |           |             |                    |  |
|                                   |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |  |
| Pawtucket,<br>Intake—             |        |                                 |                   |        |          |             |              |                |           |              |              |                  |           |             |                    |  |
| 1900 .....                        | .31    | 4.19                            | 1.38              | 2.81   | .0016    | .0163       | .0141        | .0022          | .29       | .009         | .0000        | .35              | 1.33      | 1.02        | 915                |  |
| 1901 . . . . .                    | .31    | 4.23                            | 1.44              | 2.79   | .0012    | .0169       | .0159        | .0010          | .32       | .008         | .0000        | .38              | 1.40      | .98         | 1135               |  |
| Pawtucket,<br>Tap in Boiler Room— |        |                                 |                   |        |          |             |              |                |           |              |              |                  |           |             |                    |  |
| 1900.....                         | .31    | 4.12                            | 1.30              | 2.82   | .0012    | .0130       | .0121        | .0009          | .29       | .009         | .0000        | .33              | 1.31      | 1.02        | 815                |  |
| 1901.....                         | .31    | 4.14                            | 1.37              | 2.77   | .0008    | .0139       | .0136        | .0003          | .32       | .009         | .0000        | .36              | 1.38      | .95         | 3547               |  |

*Chemical and Bacteriological Examination of the Water Supply of the Town of Bristol, the sample being taken from the Kickemuit River, at the Pumping Station of the Bristol and Warren Water Works.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |                  |           |             |                    |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Jan. 1.....            | sl.         | sl.       | .85    | 10.55                           | 3.40              | 7.15   | .0020    | .0278       | .0250        | .0028          | 2.20      | .006         | .0000        | 1.17             | 2.67      | 0.80        | 250                |
| Feb. 5.....            | sl.         | sl.       | .68    | 8.40                            | 2.75              | 5.65   | .0020    | .0254       | .0218        | .0036          | 1.40      | .009         | .0000        | 0.96             | 2.47      | 0.80        | 13                 |
| Mar. 4.....            | v. sl.      | sl.       | .54    | 8.60                            | 2.85              | 5.75   | .0002    | .0250       | .0236        | .0014          | 1.35      | .006         | .0000        | 0.83             | 2.86      | 1.20        | 199                |
| April 1.....           | v. sl.      | sl.       | .94    | 5.70                            | 2.70              | 3.00   | .0002    | .0316       | .0252        | .0064          | 0.52      | .007         | .0000        | 1.20             | 1.27      | 0.50        | 280                |
| May 6.....             | sl.         | dec.      | .95    | 6.10                            | 2.85              | 3.25   | .0006    | .0314       | .0256        | .0058          | 0.50      | .006         | .0000        | 1.18             | 1.43      | 0.75        | 4774               |
| June 3.....            | sl.         | sl.       | 1.28   | 6.65                            | 3.75              | 2.90   | .0024    | .0348       | .0314        | .0034          | 0.42      | .005         | .0000        | 1.51             | 1.35      | 0.55        | 6696               |
| July 1.....            | sl.         | sl.       | 1.40   | 7.25                            | 3.25              | 4.00   | .0096    | .0470       | .0444        | .0026          | 0.81      | .015         | .0000        | 1.47             | 1.56      | lost        | lost               |
| Aug. 5.....            | sl.         | sl.       | .76    | 7.50                            | 1.60              | 5.90   | .0022    | .0462       | .0388        | .0074          | 1.27      | .005         | .0000        | 1.12             | 1.82      | 0.93        | 2675               |
| Sept. 2.....           | sl.         | dist.     | .57    | 9.50                            | 3.45              | 6.05   | .0024    | .0410       | .0280        | .0030          | 2.35      | .003         | .0000        | 0.96             | 1.95      | 0.97        | 220                |
| Oct. 9.....            | dist.       | sl.       | .51    | 16.55                           | 4.20              | 12.35  | .0020    | .0416       | .0382        | .0034          | 6.00      | .002         | .0000        | 0.84             | 3.38      | 0.98        | 526                |
| Nov. 4.....            | sl.         | dist.     | .65    | 12.00                           | 3.65              | 8.35   | .0064    | .0398       | .0390        | .0008          | 3.15      | .005         | .0000        | 1.10             | 2.73      | 0.85        | 2914               |
| Dec. 2.....            | sl.         | sl.       | .61    | 12.85                           | 3.30              | 9.55   | .0044    | .0374       | .0362        | .0012          | 4.47      | .010         | .0000        | 1.02             | 3.12      | 0.93        | 6510               |
| Yearly avg..           | sl.         | sl.       | .81    | 9.31                            | 3.15              | 6.16   | .0029    | .0358       | .0323        | .0035          | 2.04      | .007         | .0000        | 1.11             | 2.22      | .84         | 1001               |



*Chemical and Bacteriological Examination of the Water Supply of the Town of Bristol, the sample being taken from the tap in the Office of the Town Clerk of Bristol.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |                  |           |             |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. | Hardness. | Alkalinity. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |
| Jan. 1.....            | v. sl.      | v. sl.    | .73    | 9.80                            | 3.25              | 6.05   | .0008    | .0238       | .0236        | .0002          | 1.65      | .006         | .0000        | 1.04             | 2.53      | 0.85        |
| Feb. 5.....            | v. sl.      | sl.       | .66    | 8.10                            | 2.75              | 5.35   | .0018    | .0244       | .0216        | .0025          | 1.20      | .009         | .0000        | 0.91             | 2.34      | 0.80        |
| Mar. 4.....            | v. sl.      | v. sl.    | .54    | 8.90                            | 2.65              | 6.25   | .0002    | .0234       | .0224        | .0010          | 1.50      | .007         | .0000        | 0.83             | 2.99      | 1.30        |
| April 1.....           | v. sl.      | v. sl.    | .94    | 5.35                            | 2.75              | 2.60   | .0002    | .0254       | .0238        | .0016          | 0.47      | .008         | .0000        | 1.17             | 1.43      | 0.50        |
| May 8.....             | sl.         | dec.      | 1.01   | 6.40                            | 2.80              | 3.60   | .0016    | .0286       | .0256        | .0030          | 0.50      | .006         | .0000        | 1.14             | 1.50      | 0.70        |
| June 3.....            | sl.         | sl.       | 1.26   | 6.00                            | 3.25              | 2.75   | .0002    | .0328       | .0300        | .0028          | 0.46      | .005         | .0000        | 1.50             | 1.19      | 0.67        |
| July 1.....            | sl.         | dist.     | 1.30   | 7.65                            | 2.85              | 4.80   | .0010    | .0444       | .0388        | .0056          | 0.83      | .025         | .0000        | 1.42             | 1.76      | lost        |
| Aug. 5.....            | sl.         | dist.     | .75    | 8.30                            | 1.90              | 6.40   | .0006    | .0470       | .0342        | .0128          | 1.27      | .005         | .0000        | 1.12             | 1.95      | 1.20        |
| Sept. 2.....           | sl.         | dist.     | .55    | 8.60                            | 3.20              | 5.40   | .0004    | .0388       | .0382        | .0006          | 1.75      | .005         | .0000        | 0.91             | 2.02      | 1.23        |
| Oct. 9.....            | sl.         | sl.       | .45    | 19.05                           | 4.05              | 15.00  | .0008    | .0380       | .0258        | .0122          | 7.64      | .002         | .0000        | 0.78             | 4.29      | 1.15        |
| Nov. 4.....            | sl.         | dist.     | .66    | 11.15                           | 3.25              | 7.90   | .0018    | .0394       | .0384        | .0010          | 2.85      | .005         | .0000        | 1.01             | 2.73      | 0.85        |
| Dec. 2.....            | dist.       | sl.       | .62    | 13.95                           | 3.80              | 10.15  | .0046    | .0434       | .0424        | .0010          | 4.20      | .012         | .0000        | 0.92             | 3.19      | 0.95        |
| Yearly avg..           | sl.         | sl.       | .79    | 9.40                            | 3.04              | 6.36   | .0012    | .0341       | .0304        | .0037          | 2.03      | .006         | .0000        | 1.06             | 2.33      | 0.93        |

*Chemical and Bacteriological Examination of the Water Supply of the Town of Bristol, Giving the Average for the Years 1900-1901, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION.           | Color. | RESIDUE ON<br>EVAPORA-<br>TION. |                   |        | AMMONIA. |             |              | Chlorine. | NITROGEN.    |               |                | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|----------------------------------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|-----------|--------------|---------------|----------------|------------------|-----------|-------------|--------------------|
|                                  |        | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |           | As Nitrates. | As Nitrites., |                |                  |           |             |                    |
|                                  |        |                                 |                   |        |          | Total.      | In Solution. |           |              |               | In Suspension. |                  |           |             |                    |
| Bristol,<br>Pumping Station—     |        |                                 |                   |        |          |             |              |           |              |               |                |                  |           |             |                    |
| 1900.....                        | .97    | 11.28                           | 4.02              | 7.26   | .0035    | .0439       | .0356        | .0083     | 3.00         | .007          | .0000          | 1.16             | 2.31      | 1.03        | 1764               |
| 1901.....                        | .81    | 9.31                            | 3.15              | 6.16   | .0029    | .0358       | .0323        | .0035     | 2.04         | .007          | .0000          | 1.11             | 2.22      | .84         | 1001               |
| Bristol,<br>Town Clerk's Office— |        |                                 |                   |        |          |             |              |           |              |               |                |                  |           |             |                    |
| 1900.....                        | .94    | 24.77                           | 5.10              | 19.67  | .0016    | .0376       | .0325        | .0051     | 9.54         | .011          | .0000          | 1.07             | 3.76      | 1.14        | 13014              |
| 1901.....                        | .79    | 9.40                            | 3.04              | 6.36   | .0012    | .0341       | .0304        | .0037     | 2.03         | .006          | .0000          | 1.06             | 2.33      | .93         | 3074               |

*Chemical and Bacteriological Examination of the Water Supply of the District of Narragansett, the sample being taken from Rocky Brook, at the Pumping Station.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | Chlorine. | NITROGEN.    |              |                | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|-----------|--------------|--------------|----------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |           | As Nitrates. | As Nitrites. |                |                  |           |             |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. |           |              |              | In Suspension. |                  |           |             |                    |
| Jan. 24.....           | v. sl.      | sl.       | .72    | 5.35                            | 2.35              | 3.00   | .0014    | .0250       | .0228        | .0022     | .68          | .007         | 0              | .87              | 1.27      | .50         | 572                |
| Feb. 28.....           | "           | "         | .49    | 4.65                            | 1.65              | 3.00   | .0020    | .0308       | .0246        | .0062     | .60          | .006         | 0              | .52              | .71       | .45         | 705                |
| Mar. 27.....           | "           | "         | .72    | 5.30                            | 2.10              | 3.20   | .0010    | .0222       | .0192        | .0030     | .56          | .004         | 0              | .91              | .79       | .50         | 1767               |
| April 25.....          | "           | "         | .95    | 4.75                            | 2.55              | 2.20   | .0004    | .0214       | .0192        | .0022     | .48          | .004         | 0              | .99              | .79       | .40         | 20194              |
| May 27.....            | sl.         | "         | 1.12   | 4.90                            | 2.80              | 2.10   | .0008    | .0270       | .0244        | .0026     | .49          | .008         | 0              | 1.24             | .71       | .40         | 744                |
| June 24.....           | "           | "         | .93    | 5.15                            | 2.35              | 2.80   | .0021    | .0260       | .0222        | .0038     | .56          | .003         | 0              | .96              | .79       | .58         | 975                |
| July 22.....           | dist.       | "         | .90    | 5.85                            | 2.00              | 3.35   | .0102    | .0296       | .0244        | .0052     | .55          | .004         | 0              | .89              | .56       | .65         | 2976               |
| Aug. 26.....           | sl.         | dist.     | .70    | 5.25                            | 1.80              | 3.45   | .0030    | .0340       | .0268        | .0072     | .50          | .002         | 0              | .84              | .95       | .70         | 1006               |
| Sept. 30.....          | v. sl.      | sl.       | .77    | 5.20                            | 1.90              | 3.30   | .0002    | .0250       | .0228        | .0022     | .59          | .005         | 0              | .87              | 1.11      | .54         | 330                |
| Oct. 31.....           | "           | dist.     | .90    | 6.70                            | 2.50              | 4.20   | .0018    | .0206       | .0184        | .0022     | .58          | .006         | 0              | .92              | 1.11      | .55         | 218                |
| Nov. 26.....           | sl.         | sl.       | .92    | 6.00                            | 2.35              | 3.65   | .0008    | .0236       | .0200        | .0036     | .71          | .005         | 0              | 1.01             | .95       | .40         | 114                |
| Dec. 31.....           | "           | "         | 1.10   | 5.80                            | 2.60              | 3.20   | .0022    | .0234       | .0228        | .0006     | .68          | .013         | 0              | 1.31             | .95       | .38         | 307                |
| Yearly avg..           | sl.         | sl.       | .85    | 5.37                            | 2.25              | 3.12   | .0022    | .0257       | .0223        | .0034     | .57          | .006         | 0              | .94              | .89       | .50         | 2760               |

\* Stood 4 days.

† Stood 24 hours.

*Chemical and Bacteriological Examination of the Water Supply of the District of Narragansett, the sample being taken from the tap in the Office of the Water Company.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |                  |           |             |                    |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Jan. 24.....           | v. sl.      | v. sl.    | .72    | 5.70                            | 1.90              | 3.80   | .0010    | .0170       | .0158        | .0012          | .70       | .007         | 0            | 0.81             | 1.43      | .70         | 1354               |
| Feb. 28.....           | "           | "         | .55    | 5.50                            | 1.85              | 3.65   | .0010    | .0188       | .0160        | .0028          | .67       | .007         | 0            | 0.52             | 1.11      | .60         | 368                |
| Mar. 27.....           | "           | "         | .66    | 4.75                            | 1.85              | 2.90   | .0002    | .0174       | .0168        | .0006          | .64       | .008         | 0            | 0.74             | .79       | .60         | 595                |
| April 25.....          | "           | "         | .92    | 4.45                            | 2.65              | 1.80   | .0002    | .0172       | .0168        | .0004          | .46       | .006         | 0            | 0.90             | .71       | .40         | *203670            |
| May 27.....            | "           | "         | 1.14   | 4.95                            | 2.30              | 2.65   | .0002    | .0220       | .0208        | .0012          | .48       | .008         | 0            | 1.19             | 1.19      | .76         | lost               |
| June 24.....           | sl.         | "         | .93    | 5.80                            | 2.65              | 3.15   | .0002    | .0206       | .0186        | .0020          | .55       | .010         | 0            | .80              | 1.43      | .90         | 7                  |
| July 23.....           | dist.       | sl.       | 1.12   | 5.65                            | 2.45              | 3.20   | .0002    | .0260       | .0220        | .0040          | .58       | .005         | 0            | .91              | .79       | .70         | 4                  |
| Aug. 26. . .           | "           | "         | .81    | 5.70                            | 1.80              | 3.90   | .0002    | .0250       | .0198        | .0052          | .59       | .006         | 0            | .73              | 1.82      | 1.42        | 9951               |
| Sept. 30.....          | v. sl.      | v. sl.    | .75    | 5.00                            | 1.85              | 3.15   | .0000    | .0200       | .0190        | .0010          | .59       | .005         | 0            | .72              | 1.11      | .71         | 153                |
| Oct. 31.....           | "           | "         | .89    | 5.55                            | 2.10              | 3.45   | .0008    | .0208       | .0192        | .0016          | .57       | .008         | 0            | .85              | 1.11      | .75         | 1137               |
| Nov. 26.....           | sl.         | sl.       | .92    | 6.00                            | 2.45              | 3.55   | .0006    | .0196       | .0190        | .0006          | .71       | .005         | 0            | 1.00             | 1.03      | .50         | 289                |
| Dec. 31.....           | "           | "         | 1.10   | 5.65                            | 2.60              | 3.05   | .0012    | .0216       | .0212        | .0004          | .58       | .011         | 0            | 1.22             | 1.27      | .43         | 1196               |
| Yearly avg..           | sl.         | v sl.     | .88    | 5.39                            | 2.20              | 3.19   | .0005    | .0205       | .0188        | .0017          | .59       | .007         | 0            | .87              | 1.15      | .71         | 19884              |

\* Stood 4 days.

*Chemical and Bacteriological Examination of a Water Supply in the District of Narragansett, taken from a supply known as the Gladstone Spring, the same being located at Narragansett Pier.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |              |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|------------------|-----------|-------------|--------------------|--------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |           |             |                    | As Nitrites. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                  |           |             |                    |              |
| June 28.....           | 0           | 0         | .00    | 6.90                            | 1.20              | 5.70   | 0        | .0020       | .0020        | 0              | 1.07      | .080         | 0                | 0.00      | 2.08        | ....               | 126400       |
| July 22.....           | 0           | 0         | .00    | 7.25                            | 1.85              | 5.40   | 0        | .0012       | .0012        | 0              | 1.02      | .088         | 0                | 0.00      | 1.82        | 1.20               | *            |
| Aug. 26.....           | 0           | 0         | .00    | 6.50                            | 1.10              | 5.40   | 0        | .0008       | .0008        | 0              | 1.00      | .088         | 0                | 0.00      | 1.95        | 1.25               | 8411         |
| Sept. 30.....          | 0           | 0         | .00    | 6.80                            | 1.30              | 5.50   | 0        | .0008       | .0008        | 0              | 1.00      | .088         | 0                | 0.01      | 1.95        | ....               | 61656        |
| Yearly avg..           | 0           | 0         | .00    | 6.86                            | 1.36              | 5.50   | 0        | .0012       | .0012        | 0              | 1.02      | .086         | 0                | 0.00      | 1.95        | 1.23               | 67406        |

\* Too numerous.

*Chemical and Bacteriological Examination of the Water Supply of the District of Narragansett, giving the Average for the Years 1900-1901, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | RESIDUE<br>ON EVAPORATION. |        |                   |      |        | AMMONIA. |             |              | NITROGEN.      |           |              |              |                  |           |             |                    |
|------------------------|----------------------------|--------|-------------------|------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Color.                     | Total. | Loss on Ignition. |      | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitriles. | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|                        |                            |        |                   |      |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Narragansett Pier.     |                            |        |                   |      |        |          |             |              |                |           |              |              |                  |           |             |                    |
| Pumping Station—       |                            |        |                   |      |        |          |             |              |                |           |              |              |                  |           |             |                    |
| 1900.....              | .82                        | 4.54   | 1.80              | 2.74 | .0022  | .0256    | .0205       | .0051        | .60            | .006      | .0000        | .88          | .81              | .71       | 1536        |                    |
| 1901.....              | .85                        | 5.37   | 2.25              | 3.12 | .0022  | .0257    | .0223       | .0034        | .57            | .006      | .0000        | .94          | .89              | .50       | 2760        |                    |
| Narragansett Pier.     |                            |        |                   |      |        |          |             |              |                |           |              |              |                  |           |             |                    |
| Office Water Co.       |                            |        |                   |      |        |          |             |              |                |           |              |              |                  |           |             |                    |
| 1900.....              | .87                        | 5.02   | 1.98              | 3.09 | .0007  | .0196    | .0166       | .0030        | .60            | .007      | .0000        | .78          | .84              | .72       | 1652        |                    |
| 1901.....              | .88                        | 5.39   | 2.20              | 3.19 | .0005  | .0205    | .0188       | .0017        | .59            | .007      | .0000        | .87          | 1.15             | .71       | 19884       |                    |



*Chemical and Bacteriological Examination of the Water Supply of the City of Newport, the sample being taken from the South Reservoir, at the Intake.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |              |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|------------------|-----------|-------------|--------------------|--------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |           |             |                    | As Nitrites. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                  |           |             |                    |              |
| Jan. 8.....            | v. sl.      | sl.       | .24    | 9.95                            | 3.75              | 6.20   | .0470    | .0542       | .0494        | .0048          | 2.20      | .006         | .0002            | .60       | 2.93        | 2.00               | 578          |
| Feb. 8.....            | sl.         | "         | .30    | 10.10                           | 3.80              | 6.30   | .0676    | .0798       | .0608        | .0190          | 2.09      | .021         | .0002            | .73       | 2.86        | 2.20               | 390          |
| Feb. 12.....           | "           | "         | .30    | 10.40                           | 3.55              | 6.85   | .0676    | .0624       | .0528        | .0096          | 2.10      | .021         | trace            | .65       | 2.86        | 2.20               | 1333         |
| Monthly avg.           | "           | "         | .30    | 10.25                           | 3.68              | 6.57   | .0676    | .0711       | .0568        | .0143          | 2.10      | .021         | .0001            | .69       | 2.86        | 2.20               | 862          |
| Mar. 11.....           | dec.        | dec.      | .25    | 9.55                            | 3.50              | 6.05   | .0412    | .0492       | .0324        | .0168          | 1.50      | .042         | .0006            | .64       | 2.73        | 1.60               | 2399         |
| April 8.....           | "           | "         | .51    | 8.65                            | 3.15              | 5.50   | .0324    | .0508       | .0372        | .0136          | 1.23      | .050         | .0012            | .75       | 2.21        | 1.10               | 8413         |
| May 6... ..            | "           | "         | .34    | 8.55                            | 2.50              | 6.05   | .0070    | .0468       | .0288        | .0180          | 1.20      | .060         | .0010            | .61       | 2.28        | 1.20               | 1492         |
| June 10.....           | "           | "         | .40    | 8.20                            | 3.10              | 5.10   | .0032    | .0644       | .0358        | .0286          | 1.23      | .020         | .0014            | .78       | 2.47        | 1.65               | 603          |
| July 8.....            | v. sl.      | sl.       | .25    | 7.75                            | 2.50              | 5.25   | .0054    | .0414       | .0332        | .0082          | 1.19      | .004         | .0000            | .53       | 2.53        | 1.85               | 2418         |
| Aug. 12.....           | sl.         | "         | .32    | 8.30                            | 3.30              | 5.00   | .0002    | .0514       | .0370        | .0144          | 1.30      | .006         | 0                | .61       | 2.80        | 2.20               | 3531         |
| Sept. 3.....           | "           | "         | .32    | 8.80                            | 3.45              | 5.35   | .0020    | .0516       | .0382        | .0134          | 1.59      | .004         | 0                | .58       | 2.80        | 2.27               | 459          |
| Oct. 16.....           | v. sl.      | "         | .25    | 9.30                            | 3.25              | 6.05   | .0020    | .0506       | .0370        | .0136          | 1.63      | .002         | 0                | .71       | 2.67        | 2.12               | 868          |
| Nov. 11.....           | sl.         | "         | .20    | 9.20                            | 3.40              | 5.80   | .0034    | .0488       | .0398        | .0090          | 1.65      | .003         | 0                | .57       | 2.73        | 2.00               | 589          |
| Dec. 9.....            | "           | dist.     | .22    | 9.65                            | 4.40              | 5.25   | .0196    | .0506       | .0438        | .0068          | 1.50      | .012         | 0                | .70       | 2.99        | 2.03               | 496          |
| Yearly avg'..          | "           | sl.       | .30    | 9.11                            | 3.36              | 5.75   | .0239    | .0540       | .0405        | .0135          | 1.57      | .019         | .0004            | .65       | 2.65        | 1.88               | 1820         |

*Chemical and Bacteriological Examination of the Water Supply of the City of Newport, the sample being taken from the tap in the Cottage of the Engineer of the Newport Water Works.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |              |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|------------------|-----------|-------------|--------------------|--------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |           |             |                    | As Nitrites. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                  |           |             |                    |              |
| Jan. 8.....            | v. sl.      | v. sl.    | .20    | 9.80                            | 3.55              | 6.25   | .0462    | .0476       | .0450        | .0026          | 2.20      | .017         | 0                | .54       | 2.99        | 2.00               | 4712         |
| Feb. 8.....            | sl.         | "         | .25    | 9.70                            | 2.85              | 6.85   | .0604    | .0472       | .0424        | .0048          | 2.17      | .026         | 0                | .62       | 2.93        | 2.00               | 602          |
| Feb. 12.....           | v. sl.      | "         | .15    | 11.25                           | 3.00              | 8.25   | .0480    | .0288       | .0276        | .0012          | 2.43      | .035         | 0                | .38       | 3.38        | 1.70               | 1003         |
| Monthly avg.           | sl.         | "         | .20    | 10.48                           | 2.93              | 7.55   | .0542    | .0380       | .0350        | .0030          | 2.30      | .031         | 0                | .50       | 3.16        | 1.85               | 803          |
| Mar. 11.....           | sl.         | sl.       | .22    | 8.75                            | 3.05              | 5.70   | .0344    | .0380       | .0324        | .0056          | 1.70      | .052         | .0002            | .45       | 3.06        | 1.70               | 2468         |
| April 8.....           | "           | "         | .39    | 8.95                            | 3.25              | 5.70   | .0244    | .0332       | .0300        | .0032          | 1.55      | .006         | .0006            | .51       | 2.60        | 1.00               | 2308         |
| May 6.....             | dec.        | "         | .26    | 8.30                            | 2.05              | 6.25   | .0052    | .0316       | .0250        | .0066          | 1.52      | .070         | .0006            | .47       | 2.67        | 1.50               | 1735         |
| June 10.....           | dist.       | dist.     | .36    | 8.10                            | 2.20              | 5.90   | .0036    | .0410       | .0362        | .0048          | 1.43      | .025         | 0                | .50       | 2.73        | 1.75               | 584          |
| July 8.....            | v. sl.      | v. sl.    | .21    | 8.10                            | 2.05              | 6.05   | .0042    | .0296       | .0272        | .0024          | 1.40      | .012         | 0                | .41       | 2.73        | 1.90               | 54250        |
| Aug. 12.....           | "           | sl.       | .30    | 9.55                            | 3.05              | 6.50   | .0020    | .0354       | .0324        | .0030          | 1.53      | .008         | 0                | .50       | 3.06        | 2.15               | 9424         |
| Sept. 3.....           | sl.         | "         | .32    | 9.75                            | 3.45              | 6.30   | .0186    | .0414       | .0330        | .0084          | 1.70      | .006         | trace            | .47       | 3.32        | 2.95               | 236          |
| Oct. 16.....           | v. sl.      | v. sl.    | .20    | 8.70                            | 2.55              | 6.15   | .0030    | .0346       | .0336        | .0010          | 1.73      | .005         | 0                | .50       | 2.99        | 2.35               | 262          |
| Nov. 11.....           | sl.         | sl.       | .20    | 9.65                            | 3.05              | 6.60   | .0032    | .0414       | .0358        | .0056          | 1.73      | .008         | 0                | .56       | 2.80        | 2.00               | 453          |
| Dec. 9.....            | "           | dist.     | .21    | 10.05                           | 3.80              | 6.25   | .0174    | .0488       | .0392        | .0096          | 1.60      | .020         | 0                | .67       | 3.19        | 2.30               | 2170         |
| Yearly avg..           | sl.         | sl.       | .25    | 9.28                            | 2.92              | 6.36   | .0208    | .0383       | .0338        | .0045          | 1.75      | .027         | .0001            | .51       | 2.96        | 1.94               | 6162         |

*Chemical and Bacteriological Examination of the Water Supply of the City of Newport, the sample being taken from the tap in the Office of the Board of Health of the City of Newport.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |                  |           |             |                    |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. | Chlorine. |              |              |                  |           |             |                    |
| Jan. 8.....            | v. sl.      | v. sl.    | .20    | 10.20                           | 3.10              | 7.10   | .0418    | .0500       | .0444        | .0056          | 2.20      | .017         | 0            | .52              | 2.93      | 2.00        | 914                |
| Feb. 13.....           | sl.         | sl.       | .25    | 10.85                           | 3.25              | 7.60   | .0648    | .0484       | .0452        | .0032          | 2.20      | .035         | trace<br>0   | .55              | 2.99      | 2.10        | 1099               |
| Mar. 11.....           | "           | "         | .22    | 9.20                            | 3.65              | 5.55   | .0316    | .0428       | .0344        | .0084          | 1.70      | .052         | .0006        | .53              | 3.06      | 1.90        | 1543               |
| April 8.....           | "           | "         | .26    | 8.50                            | 2.65              | 5.85   | .0148    | .0356       | .0336        | .0020          | 1.65      | .063         | .0012        | .45              | 2.60      | 1.20        | 1765               |
| May 6.....             | dist.       | sl.       | .25    | 9.00                            | 1.90              | 7.10   | .0046    | .0306       | .0240        | .0066          | 1.68      | .084         | .0006        | .47              | 2.67      | 1.50        | 6448               |
| June 10.....           | "           | dist.     | .34    | 11.30                           | 2.70              | 8.60   | .0002    | .0402       | .0332        | .0070          | 1.59      | .030         | 0            | .46              | 2.99      | 2.20        | 173                |
| July 8.....            | v. sl.      | v. sl.    | .20    | 9.00                            | 2.60              | 6.40   | .0004    | .0278       | .0260        | .0018          | 1.53      | .012         | 0            | .39              | 3.12      | 2.65        | 4960               |
| Aug. 12.....           | "           | "         | .22    | 8.65                            | 2.45              | 6.20   | .0004    | .0330       | .0298        | .0032          | 1.50      | .001         | 0            | .45              | 3.12      | 2.30        | 3976               |
| Sept. 3.....           | "           | "         | .25    | 9.35                            | 3.05              | 6.30   | .0002    | .0330       | .0316        | .0014          | 1.87      | .010         | 0            | .48              | 3.32      | 2.55        | 1116               |
| Oct. 8.....            | "           | "         | .20    | 9.40                            | 3.20              | 6.20   | .0020    | .0400       | .0368        | .0032          | 1.70      | .010         | 0            | .56              | 3.25      | 2.05        | 4036               |
| Nov. 11.....           | "           | "         | .20    | 10.15                           | 3.35              | 6.80   | .0032    | .0420       | .0346        | .0074          | 1.95      | .010         | 0            | .56              | 2.86      | 2.25        | 1337               |
| Dec. 9.....            | sl.         | dist.     | .21    | 9.10                            | 2.90              | 6.20   | .0098    | .0422       | .0368        | .0054          | 1.50      | .020         | 0            | .64              | 3.12      | 2.00        | 1777               |
| Yearly avg..           | sl.         | sl.       | .23    | 9.56                            | 2.90              | 6.60   | .0145    | .0388       | .0342        | .0046          | 1.76      | .029         | .0002        | .51              | 3.00      | 2.11        | 2345               |

*Chemical and Bacteriological Examination of the Water Supply of the City of Newport, giving the Average for the Years 1900-1901, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION.           | RESIDUE<br>ON EVAPORATION. |        |                   |        |       | AMMONIA.    |              |                | NITROGEN. |              |              | Bacteria per c. c. |                  |           |             |  |
|----------------------------------|----------------------------|--------|-------------------|--------|-------|-------------|--------------|----------------|-----------|--------------|--------------|--------------------|------------------|-----------|-------------|--|
|                                  | Color.                     | Total. | Loss on Ignition. | Fixed. | Free. | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                    | Oxygen Consumed. | Hardness. | Alkalinity. |  |
|                                  |                            |        |                   |        |       | Total.      | In Solution. | In Suspension. |           |              |              |                    |                  |           |             |  |
| Newport,<br>Eastons Pond—        |                            |        |                   |        |       |             |              |                |           |              |              |                    |                  |           |             |  |
| 1900.....                        | .39                        | 9.51   | 3.17              | 6.34   | .0056 | .0560       | .0372        | .0188          | 1.80      | .009         | .0001        | .66                | 2.58             | 2.12      | 1235        |  |
| 1901.....                        | .30                        | 9.11   | 3.36              | 5.75   | .0230 | .0540       | .0405        | .0135          | 1.57      | .019         | .0004        | .65                | 2.65             | 1.88      | 1820        |  |
| Newport,<br>Eng. Cottage—        |                            |        |                   |        |       |             |              |                |           |              |              |                    |                  |           |             |  |
| 1900.....                        | .25                        | 9.69   | 2.90              | 6.79   | .0059 | .0387       | .0329        | .0058          | 2.20      | .012         | .0001        | .49                | 2.94             | 2.12      | 1755        |  |
| 1901.....                        | .25                        | 9.28   | 2.92              | 6.36   | .0206 | .0383       | .0338        | .0045          | 1.75      | .027         | .0001        | .51                | 2.96             | 1.94      | 6162        |  |
| Newport,<br>Office Bld. of H'th— |                            |        |                   |        |       |             |              |                |           |              |              |                    |                  |           |             |  |
| 1900.....                        | .23                        | 10.55  | 3.43              | 7.12   | .0055 | .0489       | .0413        | .0076          | 2.02      | .015         | .0000        | .58                | 2.94             | 2.06      | 563         |  |
| 1901.....                        | .23                        | 9.56   | 2.90              | 6.60   | .0145 | .0388       | .0342        | .0046          | 1.76      | .029         | .0002        | .51                | 3.00             | 2.11      | 2345        |  |

*Chemical and Bacteriological Examination of the Water Supply of the Town of Jamestown, the sample being taken from the North Pumping Station.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPORATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |                  |           |             |                    |
|------------------------|-------------|-----------|--------|----------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                     | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|                        |             |           |        |                            |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Jan. 8. ....           | 0           | v. sl.    | .48    | 8.55                       | 2.35              | 6.20   | .0008    | .0228       | .0222        | .0006          | 1.43      | .054         | 0            | .79              | 2.47      | .60         | 375                |
| Feb. 19. ....          | v. sl.      | sl.       | .55    | 8.35                       | 3.10              | 5.25   | .0018    | .0302       | .0270        | .0032          | 1.50      | .014         | 0            | .89              | 2.34      | .60         | 156                |
| Mar. 10. ....          | 0           | v. sl.    | .35    | 7.05                       | 2.40              | 4.65   | .0006    | .0138       | .0126        | .0012          | 1.18      | .032         | 0            | .39              | 2.34      | 1.10        | 309                |
| April 8. ....          | sl.         | sl.       | .64    | 6.60                       | 3.00              | 3.60   | .0008    | .0254       | .0246        | .0008          | 0.80      | .016         | 0            | .94              | 1.27      | .50         | 2264               |
| May 6. ....            | v. sl.      | v. sl.    | .55    | 7.90                       | 3.10              | 4.80   | .0006    | .0232       | .0222        | .0010          | 2.65      | .022         | 0            | .80              | 2.21      | 1.60        | 1273               |
| June 9. ....           | v. sl.      | v. sl.    | 1.02   | 6.95                       | 3.45              | 3.50   | .0006    | .0414       | .0386        | .0028          | 0.73      | .009         | 0            | 1.37             | 1.43      | .85         | 62958              |
| July 14. ....          | sl.         | sl.       | 1.10   | 8.30                       | 3.50              | 4.80   | .0094    | .0472       | .0434        | .0038          | 0.98      | .006         | 0            | 1.19             | 1.63      | 1.25        | 3100               |
| Aug. 12. ....          | v. sl.      | sl.       | 1.32   | 8.45                       | 4.00              | 4.45   | .0048    | .0680       | .0616        | .0064          | 1.03      | .006         | 0            | 1.55             | 1.69      | .99         | 5332               |
| Sept. 9. ....          | sl.         | v. sl.    | 1.40   | 9.60                       | 4.05              | 5.55   | .0054    | .0858       | .0770        | .0088          | 1.20      | .010         | .0002        | 1.72             | 1.69      | 1.00        | 5828               |
| Oct. 15. ....          | v. sl.      | v. sl.    | 1.12   | 8.50                       | 4.05              | 4.45   | .0062    | .0632       | .0592        | .0040          | 1.20      | .010         | 0            | 1.54             | 1.56      | .65         | 111600             |
| Nov. 11. ....          | 0           | v. sl.    | 1.02   | 8.95                       | 4.05              | 4.90   | .0076    | .0650       | .0622        | .0038          | 1.39      | .010         | 0            | 1.45             | 1.63      | .60         | 22                 |
| Dec. 9. ....           | v. sl.      | v. sl.    | .79    | 9.85                       | 4.30              | 5.55   | .0032    | .0428       | .0398        | .0030          | 1.70      | .019         | 0            | 1.26             | 2.73      | .86         | 3100               |
| Yearly avg..           | v. sl.      | v. sl.    | .86    | 8.25                       | 3.44              | 4.81   | .0035    | .0441       | .0409        | .0032          | 1.32      | .020         | 0            | 1.92             | 1.92      | .88         | 16401              |

*Chemical and Bacteriological Examination of the Water Supply of the Town of Jamestown, the sample being taken from the South Pumping Station.*

(Parts in 100,000.)

| 'DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPORATION. |                   |        |       | AMMONIA.    |              |                | NITROGEN. |              |              | Bacteria per c.c. |      |      |                  |           |             |
|-------------------------|-------------|-----------|--------|----------------------------|-------------------|--------|-------|-------------|--------------|----------------|-----------|--------------|--------------|-------------------|------|------|------------------|-----------|-------------|
|                         | Turbidity.  | Sediment. | Color. | Total.                     | Loss on Ignition. | Fixed. | Free. | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                   |      |      | Oxygen Consumed. | Hardness. | Alkalinity. |
|                         |             |           |        |                            |                   |        |       | Total.      | In Solution. | In Suspension. |           |              |              |                   |      |      |                  |           |             |
| Jan. 8.....             | 0           | 0         | .02    | 11.70                      | 3.40              | 8.30   | 0     | .0030       | .0030        | .0000          | 2.35      | .350         | 0            | .02               | 3.77 | 1.20 | 509              |           |             |
| Feb. 19.....            | v. sl.      | v. sl.    | .46    | 8.35                       | 2.80              | 5.55   | .0014 | .0204       | .0190        | .0014          | 1.50      | .038         | 0            | .67               | 3.06 | 1.00 | 46               |           |             |
| Mar. 10.....            | 0           | v. sl.    | .20    | 9.95                       | 3.10              | 6.85   | 0     | .0092       | .0092        | .0000          | 1.95      | .140         | 0            | .27               | 3.51 | 1.45 | 661              |           |             |
| April 8.....            | 0           | 0         | .03    | 11.85                      | 4.55              | 7.30   | .0002 | .0028       | .0028        | .0000          | 2.45      | .360         | 0            | .06               | 3.85 | 1.10 | 1806             |           |             |
| May 6.....              | 0           | 0         | .00    | 14.70                      | 5.50              | 9.20   | 0     | .0098       | .0098        | .0000          | 1.00      | .600         | 0            | .06               | 4.16 | 1.10 | li. q            |           |             |
| June 9.....             | sl.         | v. sl.    | .10    | 12.95                      | 3.80              | 9.15   | .0038 | .0122       | .0088        | .0034          | 2.25      | .220         | .0004        | .21               | 3.90 | 1.35 | 63860            |           |             |
| July 14.....            | 0           | sl.       | .13    | 14.70                      | 5.30              | 9.50   | .0008 | .0088       | .0088        | .0000          | 2.43      | .300         | 0            | .20               | 4.78 | 1.83 | .....            |           |             |
| Aug. 12.....            | 0           | 0         | .00    | 14.00                      | 5.00              | 9.00   | .0000 | .0022       | .0022        | 0              | 2.68      | .449         | .0002        | .02               | 4.29 | 1.41 | 3534             |           |             |
| Sept. 9.....            | 0           | 0         | .00    | 13.55                      | 5.00              | 8.55   | 0     | .0020       | .0020        | 0              | 2.60      | .440         | .0002        | .01               | 4.86 | 1.40 | 152              |           |             |
| Oct. 15.....            | 0           | 0         | .04    | 12.85                      | 2.90              | 9.95   | .0002 | .0034       | .0034        | 0              | 2.93      | .340         | 0            | .11               | 1.16 | 1.35 | 77438            |           |             |
| Nov. 11.....            | 0           | 0         | .01    | 11.95                      | 3.85              | 8.10   | .0004 | .0046       | .0046        | 0              | 2.51      | .400         | .0002        | .08               | 3.64 | 1.35 | 61               |           |             |
| Dec. 9.....             | 0           | trace     | .00    | 12.35                      | 3.90              | 8.45   | .0008 | .0022       | .0022        | 0              | 2.78      | .387         | .0000        | .02               | 3.90 | 1.33 | 631              |           |             |
| Yearly avg..            | v. sl.      | v. sl.    | .08    | 12.41                      | 4.08              | 8.33   | .0006 | .0067       | .0063        | .0004          | 2.29      | .335         | .0001        | .14               | 3.99 | 1.32 | 7142             |           |             |



*Chemical and Bacteriological Examination of the Water Supply of the town of Jamestown, the sample being taken from tap in the store of J. Watson, located on the distal end of the supply pipes.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |            |        | RESIDUE<br>ON EVAPORATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |                  | Bacteria per c. c. |           |             |
|------------------------|-------------|------------|--------|----------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|-----------|-------------|
|                        | Turbidity.  | Sediment.  | Color. | Total.                     | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    | Hardness. | Alkalinity. |
|                        |             |            |        |                            |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |           |             |
| Jan. 8.....            | 0           | 0          | .03    | 12.10                      | 3.75              | 8.35   | .0006    | .0046       | .....        | .....          | 2.35      | .350         | 0            | .04              | 4.43               | 2.20      | 331         |
| Feb. 19.....           | v. sl.      | trace      | .42    | 8.85                       | 2.75              | 6.10   | .0006    | .0186       | .0158        | .0028          | 1.28      | .086         | 0            | .54              | 3.51               | 2.30      | 806         |
| Mar. 10.....           | 0           | 0          | .10    | 13.25                      | 4.75              | 8.50   | 0        | .0058       | .....        | .....          | 2.28      | .250         | 0            | .10              | 5.43               | 3.25      | 14322       |
| April 8.....           | 0           | 0          | .30    | 8.55                       | 2.75              | 5.80   | .0002    | .0132       | .0130        | .0002          | 1.55      | .150         | 0            | .40              | 2.86               | 1.40      | 273         |
| May 6.....             | v. sl.      | v. sl.     | .51    | 6.15                       | 2.20              | 3.95   | .0028    | .0232       | .0212        | .0020          | 1.00      | .020         | 0            | .75              | 1.50               | .70       | 10998       |
| June 9.....            | v. sl.      | v. sl.     | 1.00   | 6.85                       | 3.25              | 3.60   | .0096    | .0388       | .0374        | .0014          | .75       | .006         | 0            | 1.36             | 2.02               | 1.15      | 42594       |
| July 14.....           | sl.         | sl.        | 1.12   | 7.85                       | 3.20              | 4.65   | .0022    | .0462       | .0440        | .0022          | 1.03      | .013         | 0            | 1.19             | 1.95               | 1.55      | 32860       |
| Aug. 12.....           | v. sl.      | iron dist. | .69    | 14.50                      | 5.15              | 9.35   | 0        | .0112       | .0054        | .0058          | 2.55      | .449         | .0002        | .19              | 4.86               | 2.09      | 1191        |
| Sept. 9.....           | v. sl.      | v. sl.     | .09    | 14.85                      | 5.40              | 9.45   | .0014    | .0096       | .0072        | .0024          | 2.50      | .400         | .0004        | .18              | 4.86               | 2.20      | 386         |
| Oct. 15.....           | v. sl.      | v. sl.     | 1.00   | 9.20                       | 3.85              | 5.35   | .0014    | .0534       | .0528        | .0006          | 1.45      | .017         | 0            | 1.29             | 2.08               | 1.20      | 2752        |
| Nov. 11.....           | v. sl.      | v. sl.     | .26    | 11.45                      | 3.20              | 8.25   | .0034    | .0174       | .0166        | .0008          | 2.18      | .280         | 0            | .37              | 3.19               | 1.35      | lost.       |
| Dec. 9.....            | v. sl.      | v. sl.     | .53    | 10.65                      | 2.95              | 7.70   | .0031    | .0288       | .0278        | .0010          | 2.05      | .154         | 0            | .80              | 3.19               | 1.43      | 14664       |
| Yearly avg.,           | v. sl.      | v. sl.     | .38    | 10.35                      | 3.60              | 6.75   | .0014    | .0260       | .0241        | .0019          | 1.75      | .177         | .0001        | .60              | 3.32               | 1.74      | 11016       |

\* Average for 10 months only to agree with averages on albuminoid in solution and in suspension.

*Chemical and Bacteriological Examination of the Water Supply of the Town of Jamestown, Giving the Average for the Years 1900-1901, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION.          | RESIDUE<br>ON EVAPO-<br>RATION. |        |                   |      | AMMONIA. |             |              |                | NITROGEN. |              |              |                  |           |             |                    |
|---------------------------------|---------------------------------|--------|-------------------|------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                                 | Color.                          | Total. | Loss on Ignition. |      | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|                                 |                                 |        |                   |      |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Jamestown,<br>No. Pump'g Sta'n— |                                 |        |                   |      |          |             |              |                |           |              |              |                  |           |             |                    |
| 1900.....                       | .63                             | 9.62   | 3.08              | 6.54 | .0035    | .0336       | .0269        | .0067          | 1.27      | .071         | .0001        | .77              | 2.26      | 1.04        | 4794               |
| 1901.....                       | .86                             | 8.25   | 3.44              | 4.81 | .0035    | .0441       | .0409        | .0082          | 1.32      | .020         | .0600        | 1.92             | 1.92      | .88         | 16401              |
| Jamestown,<br>So. Pump'g Sta'n— |                                 |        |                   |      |          |             |              |                |           |              |              |                  |           |             |                    |
| 1900.....                       | .03                             | 10.23  | 2.95              | 7.28 | .0001    | .0030       | .0029        | .0001          | 2.02      | .243         | .0000        | .05              | 3.49      | 1.49        | 842                |
| 1901.....                       | .08                             | 12.41  | 4.08              | 8.33 | .0006    | .0067       | .0063        | .0004          | 2.29      | .335         | .0001        | .14              | 3.99      | 1.32        | 7142               |
| Jamestown,<br>Watson Store—     |                                 |        |                   |      |          |             |              |                |           |              |              |                  |           |             |                    |
| 1900.....                       | .45                             | 10.34  | 2.88              | 7.46 | .0010    | .0202       | .0194        | .0008          | 1.60      | .105         | .0000        | .52              | 3.39      | 2.12        | 723                |
| 1901.....                       | .38                             | 10.35  | 3.60              | 6.75 | .0014    | .0260       | .0241        | .0019          | 1.75      | .177         | .0001        | .60              | 3.32      | 1.74        | 11016              |

*Chemical and Bacteriological Examination of the Water Supply of the Town of Westerly, the sample being taken from the Pumping Station of the Westerly Water Works.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |           |             |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Jan. 1.....            | 0           | 0         | 0      | 4.70                            | .95               | 3.75   | 0        | .0018       | .0018        | .0000          | .58       | .062         | 0            | .02              | 1.82      | 1.50        | 2                  |
| Feb. 7.....            | 0           | 0         | 0      | 5.70                            | 1.40              | 4.30   | .0006    | .0020       | .0020        | .0000          | .58       | .070         | 0            | .07              | 1.95      | 1.50        | 1                  |
| Mar. 4.....            | 0           | 0         | 0      | 5.15                            | 1.00              | 4.15   | 0        | .0014       | .0014        | .0000          | .60       | .056         | 0            | .00              | 1.95      | 1.50        | 4                  |
| April 8.....           | 0           | 0         | 0      | 5.35                            | 1.35              | 4.00   | 0        | .0014       | .0014        | .0000          | .55       | .056         | 0            | .00              | 1.82      | 1.45        | 75                 |
| May 6.....             | 0           | 0         | 0      | 5.35                            | 1.15              | 4.20   | 0        | .0014       | .0014        | .0000          | .56       | .068         | 0            | .01              | 1.95      | 1.50        | 14198              |
| June 10.....           | 0           | 0         | 0      | 5.80                            | 1.70              | 4.10   | .0002    | .0012       | .0012        | .0000          | .54       | .064         | 0            | .00              | 2.08      | 1.50        | 675                |
| July 8.....            | 0           | 0         | 0      | 5.90                            | 1.70              | 4.20   | 0        | .0020       | .0020        | .0000          | .57       | .064         | 0            | .02              | 1.95      | 1.50        | 89                 |
| Aug. 5.....            | 0           | 0         | 0      | 5.25                            | .60               | 4.65   | .0002    | .0018       | .0018        | .0000          | .58       | .052         | 0            | .00              | 1.95      | 1.65        | 46                 |
| Sept. 3.....           | 0           | 0         | 0      | 5.75                            | 1.45              | 4.30   | 0        | .0012       | .0012        | 0              | .58       | .060         | 0            | .01              | 2.34      | 1.65        | 41                 |
| Oct. 7.....            | 0           | 0         | 0      | 5.60                            | 1.70              | 3.90   | .0002    | .0018       | .0018        | 0              | .58       | .050         | 0            | .02              | 2.21      | 1.70        | 114                |
| Nov. 4.....            | 0           | 0         | 0      | 5.50                            | 1.30              | 4.20   | 0        | .0012       | .0012        | 0              | .58       | .054         | 0            | .00              | 2.02      | 1.50        | 4                  |
| Dec. 4.....            | 0           | 0         | 0      | 4.90                            | .95               | 3.95   | 0        | .0016       | .0016        | 0              | .60       | .050         | 0            | .00              | 1.95      | 1.55        | 3                  |
| Yearly avg..           | 0           | 0         | 0      | 5.41                            | 1.27              | 4.14   | .0001    | .0016       | .0016        | .0000          | .58       | .059         | 0            | .01              | 2.00      | 1.54        | 1269               |

*Chemical and Bacteriological Examination of the Water Supply of the Town of Westerly, the sample being taken from the Tap at the Drinking Fountain at the Railroad Station.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>TION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              |              |                  |           |             |                    |
|------------------------|-------------|-----------|--------|-------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                        | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|                        |             |           |        |                               |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Jan. 1.....            | 0           | 0         | 0      | 5.00                          | .90               | 4.10   | 0        | .0022       | .0022        | .0000          | .58       | .062         | 0            | .01              | 1.82      | 1.50        | 2                  |
| Feb. 7.....            | 0           | tr.*      | 0      | 5.65                          | 1.40              | 4.25   | .0010    | .0020       | .0020        | .0000          | .58       | .070         | 0            | .13              | 1.95      | 1.59        | 0                  |
| Mar. 4.....            | 0           | 0         | 0      | 5.15                          | 1.10              | 4.05   | 0        | .0012       | .0012        | .0000          | .60       | .056         | 0            | .00              | 1.95      | 1.50        | 0                  |
| April 8.....           | 0           | 0         | 0      | 5.35                          | 1.40              | 3.95   | 0        | .0014       | .0014        | .0000          | .55       | .056         | 0            | .00              | 1.82      | 1.45        | 32                 |
| May 6.....             | 0           | 0         | 0      | 5.25                          | 1.15              | 4.10   | 0        | .0014       | .0014        | .0000          | .56       | .068         | 0            | .02              | 1.95      | 1.50        | 1302               |
| June 10.....           | 0           | 0         | 0      | 5.50                          | 1.30              | 4.20   | .0002    | .0020       | .0020        | 0              | .56       | .064         | 0            | .00              | 2.08      | 1.50        | 1054               |
| July 8.....            | 0           | 0         | 0      | 5.80                          | 1.30              | 4.50   | 0        | .0022       | .0022        | 0              | .57       | .064         | 0            | .02              | 1.95      | 1.55        | 1550               |
| Aug. 5.....            | 0           | 0         | 0      | 5.30                          | .65               | 4.65   | 0        | .0016       | .0016        | 0              | .59       | .052         | 0            | .01              | 1.95      | 1.65        | 1476               |
| Sept. 3.....           | 0           | 0         | 0      | 5.75                          | 1.55              | 4.20   | 0        | .0010       | .0010        | 0              | .58       | .060         | 0            | .01              | 2.34      | 1.65        | 699                |
| Oct. 7.....            | 0           | 0         | 0      | 5.60                          | 1.70              | 3.90   | 0        | .0016       | .0016        | 0              | .58       | .050         | 0            | .01              | 2.21      | 1.70        | 113                |
| Nov. 4.....            | 0           | 0         | 0      | 5.45                          | 1.00              | 4.45   | 0        | .0008       | .0008        | 0              | .58       | .054         | 0            | .00              | 2.02      | 1.50        | 4                  |
| Dec. 2.....            | 0           | 0         | 0      | 5.60                          | 1.55              | 4.05   | 0        | .0008       | .0008        | 0              | .60       | .050         | 0            | .00              | 2.15      | 1.55        | 4                  |
| Yearly avg..           | 0           | 0         | 0      | 5.45                          | 1.25              | 4.20   | .0001    | .0015       | .0015        | .0000          | .58       | .059         | 0            | .02              | 2.02      | 1.55        | 520                |

\* Sediment grassy.

*Chemical and Bacteriological Examination of the Water Supply of the Town of Westerly, giving the Average for the Years 1900-1901, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION.        | RESIDUE<br>ON EVAPO-<br>RATION. |        |                   |        |       | AMMONIA.    |              |                | NITROGEN. |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |              |
|-------------------------------|---------------------------------|--------|-------------------|--------|-------|-------------|--------------|----------------|-----------|--------------|------------------|-----------|-------------|--------------------|--------------|
|                               | Color.                          | Total. | Loss on Ignition. | Fixed. | Free. | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |           |             |                    | As Nitrites. |
|                               |                                 |        |                   |        |       | Total.      | In Solution. | In Suspension. |           |              |                  |           |             |                    |              |
|                               |                                 |        |                   |        |       |             |              |                |           |              |                  |           |             |                    |              |
| Westerly,<br>Pumping Station— |                                 |        |                   |        |       |             |              |                |           |              |                  |           |             |                    |              |
| 1900.....                     | .09                             | 5.32   | 1.28              | 4.04   | .0000 | .0016       | .0016        | .0000          | .59       | .056         | .0000            | .00       | 1.82        | 1.52               | 390          |
| 1901.....                     | .00                             | 5.41   | 1.27              | 4.14   | .0001 | .0016       | .0016        | .0000          | .58       | .059         | .0000            | .01       | 2.00        | 1.54               | 1269         |
| Westerly,<br>Drink'g Fount'n— |                                 |        |                   |        |       |             |              |                |           |              |                  |           |             |                    |              |
| 1900.....                     | .00                             | 5.36   | 1.27              | 4.09   | .0000 | .0014       | .0014        | .0000          | .59       | .056         | .0000            | .00       | 1.79        | 1.47               | 340          |
| 1901.....                     | .00                             | 5.45   | 1.25              | 4.20   | .0001 | .0015       | .0015        | .0000          | .58       | .059         | .0000            | .02       | 2.02        | 1.55               | 520          |

*Chemical and Bacteriological Examination of the Water Supply of the Town of East Providence, the sample being taken from the Ten Mile River, at the Pumping Station at Hunt's Mills.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | Chlorine. | NITROGEN.      |      |       | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|-----------|----------------|------|-------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |           |                |      |       |                  |           |             |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. |           | In Suspension. |      |       |                  |           |             |                    |
| Jan. 2.....            | sl.         | v. sl.    | .49    | 6.70                            | 2.35              | 4.35   | .0088    | .0186       | .0170        | .0016     | .68            | .032 | .0022 | .62              | 2.08      | .70         | 3534               |
| Feb. 6.....            | sl.         | dec.      | .43    | 7.20                            | 2.15              | 5.05   | .0138    | .0212       | .0158        | .0054     | .74            | .070 | .0016 | .51              | 2.21      | ...         | 1178               |
| Mar. 6.....            | d.          | dec.      | .53    | 8.20                            | 2.90              | 5.30   | .0410    | .0446       | .0374        | .0072     | .77            | .040 | .0010 | .80              | 2.28      | .90         | 40920              |
| April 3.....           | v. sl.      | sl.       | .60    | 5.15                            | 2.10              | 3.05   | .0018    | .0222       | .0202        | .0020     | .48            | .026 | .0002 | .61              | 1.56      | .70         | 673                |
| May 1.....             | v. sl.      | sl.       | .61    | 4.90                            | 1.80              | 3.10   | .0022    | .0186       | .0170        | .0016     | .42            | .016 | .0000 | .66              | 1.56      | .90         | 583                |
| June 5.....            | v. sl.      | lv. sl.   | .95    | 5.60                            | 2.10              | 3.50   | .0018    | .0250       | .0244        | .0006     | .46            | .014 | .0008 | .93              | 1.56      | .93         | 414                |
| July 3.....            | v. sl.      | sl.       | .66    | 6.40                            | 2.20              | 4.20   | .0018    | .0292       | .0284        | .0008     | .62            | .025 | .0002 | .60              | 1.95      | 1.15        | 361                |
| Aug. 7.....            | sl.         | v. sl.    | .29    | 6.50                            | 1.55              | 4.95   | .0010    | .0168       | .0160        | .0008     | 1.00           | .013 | .0006 | .33              | 2.34      | 1.45        | 146                |
| Sept. 3.....           | v. sl.      | v. sl.    | .35    | 6.95                            | 2.05              | 4.90   | .0018    | .0192       | .0180        | .0012     | 1.06           | .009 | .0002 | .41              | 2.34      | 1.45        | 192                |
| Oct. 2.....            | v. sl.      | sl.       | .36    | 7.10                            | 1.85              | 5.25   | .0016    | .0230       | .0188        | .0042     | 1.11           | .023 | .0004 | .46              | 2.21      | .98         | 1426               |
| Nov. 4.....            | v. sl.      | sl.       | .41    | 6.50                            | 2.20              | 4.30   | .0024    | .0168       | .0156        | .0012     | .76            | .035 | trace | .47              | 2.21      | .81         | 108                |
| Dec. 2.....            | v. sl.      | v. sl.    | .40    | 8.25                            | 2.10              | 6.15   | .0106    | .0244       | .0218        | .0026     | 1.01           | .060 | .0024 | .59              | 2.68      | .88         | 13826              |
| Yearly avg..           | sl.         | sl.       | .51    | 6.62                            | 2.11              | 4.51   | .0074    | .0233       | .0209        | .0024     | .76            | .030 | .0008 | .58              | 2.00      | .90         | 5591               |



*Chemical and Bacteriological Examination of the Water Supply of the Town of East Providence, sample being the Effluent of the Mechanical Filter, at Hunt's Mills.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPORATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |              |
|------------------------|-------------|-----------|--------|----------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|------------------|-----------|-------------|--------------------|--------------|
|                        | Turbidity.  | Sediment. | Color. | Total                      | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |           |             |                    | As Nitrites. |
|                        |             |           |        |                            |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                  |           |             |                    |              |
| Jan. 2.....            | 0           | 0         | .05    | 6.75                       | 1.50              | 5.25   | .0086    | .0070       | .0070        | 0              | .68       | .032         | .0022            | .18       | 2.73        | .00                | 25           |
| Feb. 6.....            | 0           | 0         | .05    | 7.25                       | 1.50              | 5.75   | .0138    | .0082       | .0082        | 0              | .68       | .070         | .0016            | .12       | 2.60        | .05                | 4            |
| Mar. 6.....            | 0           | 0         | .05    | 7.15                       | 1.50              | 5.65   | .0386    | .0158       | .0158        | 0              | .72       | .040         | .0010            | .28       | 2.60        | .10                | 235          |
| April 3.....           | 0           | 0         | .10    | 5.25                       | 1.70              | 3.55   | .0010    | .0074       | .0074        | 0              | .42       | .026         | .0002            | .17       | 1.89        | .10                | lost.        |
| May 1.....             | 0           | 0         | .05    | 4.70                       | .80               | 3.90   | .0006    | .0062       | .0062        | 0              | .40       | .011         | trace            | .15       | 1.95        | .10                | 0            |
| June 5.....            | 0           | 0         | .08    | 5.05                       | 1.65              | 3.40   | .0014    | .0100       | .0100        | 0              | .45       | .013         | .0008            | .21       | 1.76        | .21                | 76           |
| July 3.....            | 0           | 0         | .05    | 5.95                       | 1.50              | 4.45   | .0016    | .0104       | .0104        | 0              | .60       | .025         | .0002            | .15       | 2.08        | .41                | 17           |
| Aug. 7.....            | 0           | 0         | .00    | 6.00                       | 1.00              | 5.00   | .0008    | .0058       | .0058        | 0              | .97       | .008         | .0006            | .07       | 2.47        | .45                | 1            |
| Sept. 3.....           | 0           | 0         | .01    | 7.25                       | 1.90              | 5.35   | .0018    | .0076       | .0076        | 0              | 1.06      | .008         | .0002            | .11       | 2.47        | .52                | 2            |
| Oct. 2.....            | 0           | 0         | .04    | 8.30                       | 2.05              | 6.25   | .0002    | .0076       | .0076        | 0              | 1.10      | .022         | .0004            | .17       | 2.60        | .14                | 1            |
| Nov. 4.....            | 0           | 0         | .05    | 6.65                       | 1.35              | 5.30   | .0018    | .0052       | .0052        | 0              | .75       | .021         | trace            | .14       | 2.47        | .10                | 0            |
| Dec. 2.....            | 0           | 0         | .03    | 7.80                       | 1.70              | 6.10   | .0102    | .0092       | .0092        | 0              | .95       | .040         | .0020            | .26       | 2.73        | .15                | 44           |
| Yearly avg..           | 0           | 0         | .04    | 6.51                       | 1.51              | 5.00   | .0067    | .0081       | .0084        | .0060          | .73       | .026         | .0008            | .17       | 2.36        | .19                | 36           |

*Chemical and Bacteriological Examination of the Water Supply of the Town of East Providence, giving the average for the years 1900-1901, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION.                 | Color. | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c.c. |              |
|----------------------------------------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|------------------|-----------|-------------|-------------------|--------------|
|                                        |        | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |           |             |                   | As Nitrites. |
|                                        |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                  |           |             |                   |              |
|                                        |        |                                 |                   |        |          |             |              |                |           |              |                  |           |             |                   |              |
| East Providence,<br>Pumping Station—   |        |                                 |                   |        |          |             |              |                |           |              |                  |           |             |                   |              |
| 1900.....                              | .58    | 6.53                            | 2.01              | 4.52   | .0026    | .0234       | .0205        | .0029          | .69       | .019         | .0003            | .58       | 1.86        | 1.11              | 730          |
| 1901.....                              | .51    | 6.62                            | 2.11              | 4.51   | .0074    | .0233       | .0209        | .0024          | .76       | .030         | .0008            | .58       | 2.00        | .90               | 5501         |
| East Providence,<br>Mechanical Filter— |        |                                 |                   |        |          |             |              |                |           |              |                  |           |             |                   |              |
| 1900.....                              | .08    | 6.15                            | 1.63              | 4.52   | .0022    | .0109       | .0109        | .0000          | .66       | .018         | .0003            | .18       | 2.10        | .33               | 18           |
| 1901.....                              | .04    | 6.51                            | 1.51              | 5.00   | .0067    | .0084       | .0084        | .0000          | .73       | .026         | .0008            | .17       | 2.36        | .19               | 36           |

*Chemical and Bacteriological Examination of the Water Supply of the Town of New Shoreham, the sample being taken from Fresh Pond, near the centre of the town.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |              |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|------------------|-----------|-------------|--------------------|--------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |           |             |                    | As Nitrites. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                  |           |             |                    |              |
| Jan. 26 .....          | v. sl.      | sl.       | .10    | 8.80                            | 2.50              | 6.30   | .0314    | .0510       | .0358        | .0152          | 2.87      | .005         | 0                | .33       | 1.63        | .70                | 1778         |
| Feb. 18.....           | v. sl.      | v. sl.    | .05    | 8.55                            | 2.40              | 6.15   | .0360    | .0476       | .0388        | .0088          | 2.98      | .003         | 0                | .36       | 1.50        | .70                | 25           |
| Mar. 11 .....          | 0           | sl.       | .10    | 9.90                            | 2.55              | 7.35   | .0338    | .0416       | .0328        | .0088          | 2.85      | .007         | 0                | .41       | 1.43        | .55                | 4638         |
| April 2.....           | v. sl.      | v. sl.    | .08    | 8.30                            | 2.45              | 5.85   | .0246    | .0412       | .0342        | .0070          | 2.78      | .007         | 0                | .39       | 1.43        | .60                | 45322        |
| May 13.....            | sl.         | sl.       | .10    | 9.70                            | 3.95              | 5.75   | .0092    | .0506       | .0384        | .0122          | 2.70      | .008         | 0                | .56       | 1.43        | .60                | 13578        |
| June 3.....            | d.          | sl.       | .11    | 9.10                            | 3.50              | 5.60   | .0114    | .0460       | .0396        | .0064          | 2.60      | .003         | .0006            | .45       | 1.27        | 1.15               | 3224         |
| July 11.....           | dist.       | sl.       | .26    | 9.80                            | 2.80              | 7.00   | .0036    | .0616       | .0428        | .0188          | 2.53      | .004         | 0                | .51       | 1.43        | .85                | 156          |
| Aug. 5.....            | sl.         | dist.     | .06    | 9.10                            | 3.75              | 5.35   | .0012    | .0474       | .0392        | .0082          | 2.65      | .003         | 0                | .15       | 1.50        | .80                | 70990        |
| Sept. 3.....           | sl.         | dec.      | .13    | 9.90                            | 3.60              | 6.30   | .0048    | .0592       | .0376        | .0216          | 2.60      | .002         | 0                | .45       | 1.43        | .65                | 5784         |
| Oct. 8.....            | sl.         | dist.     | .20    | 10.20                           | 3.50              | 6.70   | .0006    | .0654       | .0422        | .0232          | 2.70      | .001         | 0                | .52       | 1.56        | .70                | 1319         |
| Nov. 7.....            | v. sl.      | dist.     | .08    | 9.65                            | 2.90              | 6.75   | .0022    | .0536       | .0338        | .0198          | 2.70      | .001         | 0                | .38       | 1.56        | .76                | 1922         |
| Dec. 2.....            | sl.         | dec.      | .10    | 11.90                           | 4.30              | 7.60   | .0078    | .0838       | .0298        | .0540          | 2.20      | .003         | 0                | .65       | 1.19        | .60                | 697          |
| Yearly avg..           | sl.         | sl.       | .10    | 9.57                            | 3.18              | 6.39   | .0139    | .0541       | .0371        | .0170          | 2.68      | .004         | .0001            | .43       | 1.45        | .72                | 12454        |

*Chemical and Bacteriological Examination of the Water Supply of the Town of New Shoreham, the sample being taken from Sand's Pond, at the Intake.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |             |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              |              |                  |           |             |                    |
|------------------------|-------------|-------------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                        | Turbidity.  | Sediment.   | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|                        |             |             |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
| Jan. 26.....           | sl          | iron<br>sl. | .19    | 9.40                            | 2.25              | 7.15   | .0006    | .0172       | .0142        | .0030          | 3.03      | .003         | 0            | 0.13             | 2.08      | .65         | 32                 |
| Feb. 18.....           | 0           | v. sl.      | .02    | 8.35                            | 2.40              | 5.95   | .0012    | .0196       | .0184        | .0012          | 3.28      | .004         | 0            | 0.14             | 1.95      | .20         | 87                 |
| Mar. 11.....           | 0           | sl.         | .11    | 8.65                            | 1.70              | 6.95   | .0044    | .0214       | .0192        | .0023          | 2.78      | .006         | 0            | 0.19             | 1.50      | .20         | 6448               |
| April 1.....           | v. sl.      | trace       | .16    | 9.20                            | 1.80              | 7.40   | .0002    | .0148       | .0144        | .0004          | 2.92      | .002         | 0            | 0.10             | 2.28      | 1.00        | 580                |
| May 13.....            | dist.       | v. sl.      | .27    | 9.15                            | 2.25              | 6.90   | .0002    | .0118       | .0106        | .0012          | 2.78      | .003         | 0            | 0.55             | 2.21      | .95         | 1395               |
| June 3. ....           | d.          | iron<br>sl. | .90    | 12.10                           | 3.60              | 8.50   | .0018    | .0158       | .0388        | .0070          | 3.85      | .006         | 0            | 0.80             | 2.08      | 1.15        | 6400               |
| July 11.....           | dist.       | sl.         | .65    | 10.09                           | 1.15              | 8.85   | .0041    | .0400       | .0284        | .0116          | 3.80      | .017         | 0            | 0.45             | 2.86      | 1.34        | .....              |
| Aug. 5.....            | v. sl       | v. sl.      | .14    | 9.90                            | 2.65              | 7.25   | .0002    | .0176       | .0160        | .0016          | 2.85      | .003         | 0            | 0.14             | 1.95      | .65         | 73222              |
| Sept. 3.....           | gr.         | dist.       | br.    | 13.90                           | 3.15              | 10.75  | .0156    | .0968       | .0572        | .0096          | 3.01      | .012         | 0            | 1.29             | 1.95      | 1.00        | 51764              |
| Oct. 8.....            | 0           | v. sl.      | .06    | 10.25                           | 3.80              | 6.45   | .0006    | .0212       | .0176        | .0036          | 2.95      | .003         | 0            | 0.15             | 2.21      | .94         | 94                 |
| Nov. 7. ....           | 0           | v. sl.      | .07    | 9.00                            | 1.50              | 7.50   | .0010    | .0162       | .0162        | 0              | 2.95      | .003         | 0            | 0.11             | 2.21      | .93         | 4826               |
| Dec. 2.....            | v. sl.      | v. sl.      | .10    | 9.85                            | 2.10              | 7.75   | .0012    | .0156       | .0150        | .0006          | 3.25      | .005         | 0            | 0.11             | 2.54      | 1.35        | 410                |
| Yearly avg.,           | sl.         | sl.         | .22    | 9.98                            | 2.36              | 7.62   | .0026    | .0282       | .0222        | .0060          | 3.08      | .006         | 0            | 0.35             | 2.15      | .86         | 18206              |

*Chemical and Bacteriological Examination of the Water Supply of the Town of New Shoreham, Giving the Average for the Years 1900-1901, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION.       | Color. | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | Free. | AMMONIA.    |              |                | Chlorine. | NITROGEN.    |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |
|------------------------------|--------|---------------------------------|-------------------|--------|-------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|
|                              |        | Total.                          | Loss on Ignition. | Fixed. |       | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. |                  |           |             |                    |
|                              |        |                                 |                   |        |       | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |
|                              |        |                                 |                   |        |       |             |              |                |           |              |              |                  |           |             |                    |
| New Shoreham,<br>Fresh Pond— |        |                                 |                   |        |       |             |              |                |           |              |              |                  |           |             |                    |
| 1900 .....                   | .14    | 8.72                            | 2.55              | 6.17   | .0075 | .0484       | .0298        | .0186          | 2.58      | .012         | .0000        | .40              | 1.22      | .67         | 24762              |
| 1901 . . . . .               | .10    | 9.57                            | 3.18              | 6.39   | .0139 | .0541       | .0371        | .0170          | 2.68      | .004         | .0001        | .13              | 1.45      | .72         | 12154              |
| New Shoreham,<br>Sands Pond— |        |                                 |                   |        |       |             |              |                |           |              |              |                  |           |             |                    |
| 1900.....                    | ....   | 13.57                           | 4.35              | 9.22   | .0287 | .0556       | .0455        | .0101          | 3.62      | .016         | .0053        | .96              | 2.28      | 1.23        | 2897               |
| 1901.....                    | .22    | 9.98                            | 2.36              | 7.62   | .0026 | .0282       | .0222        | .0060          | 3.08      | .006         | .0000        | .35              | 2.15      | .86         | 18206              |

*Averages of Results of Chemical and Bacteriological Examinations of all the Water Supplies in the State, January to December inclusive, for the year 1901.*

(Parts in 100,000.)

|                                  | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                             |       | AMMONIA.    |              |                | NITROGEN. |              |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |       |
|----------------------------------|-------------|-----------|--------|---------------------------------|-----------------------------|-------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-----------|-------------|--------------------|-------|
|                                  | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition,<br>Fixed. | Free. | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |           |             |                    |       |
|                                  |             |           |        |                                 |                             |       | Total.      | In Solution. | In Suspension. |           |              |              |                  |           |             |                    |       |
| Pettaconset. ....                | sl.         | sl.       | .44    | 5.83                            | 2.10                        | 3.73  | .0012       | .0248        | .0207          | .0041     | .42          | .013         | .0003            | .67       | 1.41        | .82                | 4032  |
| Washington.....                  | v. sl.      | v. sl.    | .45    | 3.86                            | 1.58                        | 2.28  | .0015       | .0173        | .0163          | .0010     | .28          | .004         | 0                | .59       | .64         | .49                | 792   |
| Hope.....                        | "           | "         | .79    | 3.93                            | 1.49                        | 2.44  | .0005       | .0154        | .0145          | .0009     | .26          | .004         | 0                | .53       | .68         | .52                | 694   |
| Laboratory Tap...                | sl.         | sl.       | .41    | 6.18                            | 1.93                        | 4.25  | .0005       | .0224        | .0193          | .0031     | .50          | .013         | .0001            | .57       | 1.71        | .96                | 8161  |
| P. V. Water Co....               | v. sl.      | v. sl.    | .29    | 3.67                            | 1.44                        | 2.23  | .0012       | .0159        | .0151          | .0008     | .35          | .016         | 0                | .40       | .80         | .57                | 2341  |
| Knights' Spring...               | 0           | 0         | .00    | 6.39                            | 2.22                        | 4.17  | .0004       | .0020        | .0020          | .0000     | .81          | .321         | 0                | .01       | 2.03        | .32                | 1622  |
| Coventry Water Co                | 0           | 0         | .04    | 2.17                            | .68                         | 1.49  | .0002       | .0074        | .0074          | .0000     | .29          | .003         | 0                | .08       | .30         | .26                | 1382  |
| E. Greenwich.....                | v. sl.      | sl.       | .40    | 4.51                            | 1.45                        | 3.06  | .0003       | .0114        | .0104          | .0010     | .40          | .009         | 0                | .44       | 1.13        | .87                | 2144  |
| Woonsocket, Res. 3               | sl.         | "         | .58    | 4.15                            | 2.35                        | 1.80  | .0034       | .0469        | .0317          | .0152     | .22          | .003         | 0                | .82       | .58         | .48                | 819   |
| "    P. Sta...                   | v. sl.      | v. sl.    | .63    | 4.20                            | 2.00                        | 2.20  | .0032       | .0247        | .0231          | .0016     | .24          | .006         | 0                | .68       | .92         | .56                | 882   |
| "    Supts. Office               | sl.         | sl.       | .64    | 4.66                            | 2.11                        | 2.55  | .0017       | .0277        | .0226          | .0051     | .24          | .006         | 0                | .79       | .98         | .59                | 1177  |
| Pawtucket, Intake                | v. sl.      | v. sl.    | .31    | 4.23                            | 1.44                        | 2.79  | .0012       | .0169        | .0159          | .0010     | .32          | .008         | 0                | .38       | 1.40        | .98                | 1135  |
| "    Tap...                      | "           | "         | .31    | 4.14                            | 1.37                        | 2.77  | .0008       | .0139        | .0136          | .0003     | .32          | .009         | 0                | .36       | 1.38        | .95                | 3547  |
| Bristol, P. Sta.....             | sl.         | sl.       | .81    | 9.31                            | 3.15                        | 6.16  | .0029       | .0358        | .0323          | .0035     | 2.01         | .007         | 0                | 1.11      | 2.22        | .84                | 1001  |
| "    Tap, Clerk's<br>Office..... | "           | "         | .79    | 9.40                            | 3.04                        | 6.36  | .0012       | .0341        | .0304          | .0037     | 2.03         | .006         | 0                | 1.06      | 2.33        | .93                | 3074  |
| Narrag., P. Sta....              | "           | "         | .85    | 5.37                            | 2.25                        | 3.12  | .0021       | .0257        | .0223          | .0034     | .57          | .006         | 0                | .94       | .89         | .50                | 2760  |
| "    Office Water<br>Co.....     | "           | "         | .88    | 5.39                            | 2.20                        | 3.19  | .0005       | .0205        | .0188          | .0017     | .59          | .007         | 0                | .87       | 1.15        | .71                | 19884 |



*Averages of Results of Chemical and Bacteriological Examinations of all the Water Supplies in the State, January to December inclusive, for the year 1901.—Concluded.*

(Parts in 100,000.)

|                                                      | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              | Oxygen Consumed. | Hardness. | Alkalinity. | Bacteria per c. c. |              |
|------------------------------------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|------------------|-----------|-------------|--------------------|--------------|
|                                                      | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |           |             |                    | As Nitrites. |
|                                                      |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                  |           |             |                    |              |
| Narrag., Gladstone<br>Spring.....                    | 0           | 0         | .00    | 6.86                            | 1.36              | 5.50   | .0000    | .0012       | .0012        | .0000          | 1.02      | .086         | 0                | .00       | 1.95        | 1.23               | 67406        |
| Newport, Easton's<br>Pond.....                       | sl.         | sl.       | .30    | 9.11                            | 3.36              | 5.75   | .0230    | .0540       | .0405        | .0135          | 1.57      | .019         | .0001            | .65       | 2.65        | 1.88               | 1820         |
| Newport, Eng Cot-<br>tage. ....                      | "           | "         | .25    | 9.28                            | 2.92              | 6.36   | .0208    | .0383       | .0338        | .0045          | 1.75      | .027         | .0001            | .51       | 2.96        | 1.94               | 6162         |
| Newport, Office Bld.<br>of Health .....              | "           | "         | .23    | 9.56                            | 2.90              | 6.60   | .0145    | .0388       | .0342        | .0046          | 1.76      | .029         | .0002            | .51       | 3.00        | 2.11               | 2345         |
| Jamestown, No. P.<br>Station .....                   | v. sl.      | v. sl.    | .86    | 8.25                            | 3.41              | 4.81   | .0035    | .0441       | .0409        | .0032          | 1.32      | .020         | 0                | 1.92      | 1.92        | .88                | 10401        |
| Jamestown, So. P.<br>Station.....                    | "           | "         | .08    | 12.41                           | 4.08              | 8.33   | .0006    | .0067       | .0063        | .0004          | 2.29      | .335         | .0001            | .14       | 3.99        | 1.32               | 7142         |
| Jamestown, Wat-<br>son's Store.....                  | "           | "         | .38    | 10.35                           | 3.60              | 6.75   | .0014    | .0260       | .0241        | .0019          | 1.75      | .177         | .0001            | .60       | 3.32        | 1.74               | 11016        |
| Westerly, P. Sta...<br>" Drinking<br>Fountain.....   | 0           | 0         | .00    | 5.41                            | 1.27              | 4.14   | .0001    | .0016       | .0016        | .0000          | .58       | .059         | 0                | .01       | 2.00        | 1.54               | 1269<br>520  |
| E. Prov., P. Sta...<br>" Mechani-<br>cal Filter..... | sl.         | sl.       | .51    | 6.62                            | 2.11              | 4.51   | .0074    | .0233       | .0209        | .0024          | .76       | .030         | .0008            | .58       | 2.00        | .90                | 5591<br>36   |
| N. Shoreham, Fresh<br>Pond.....                      | sl.         | sl.       | .10    | 9.57                            | 3.18              | 6.39   | .0139    | .0541       | .0371        | .0170          | 2.68      | .004         | .0001            | .43       | 1.45        | .72                | 12454        |
| N. Shoreham, Sands<br>Pond.....                      | "           | "         | .22    | 9.98                            | 2.36              | 7.62   | .0026    | .0282       | .0222        | .0060          | 3.08      | .006         | 0                | .35       | 2.15        | .86                | 18206        |

## EXAMINATION OF SEWAGE WASTES.

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One of the most difficult problems which is presented for solution to boards of health is the disposal of sewage wastes. Few inland towns are so situated as to be able to discharge their crude sewage into a nearby water-way. It must be treated and purified before final disposal, or a nuisance will rapidly be created which will demand summary treatment.

A very good understanding of this subject has been established in England, and the various commissions and controlling boards are prepared to recommend methods for disposal of sewage wastes for any given town.

It so happens that the sewages of no two towns are of the same character. The size of the town, the character of the population, the introduction of manufacturers' wastes, and the presence of an ample water supply will each modify materially the density and quality of the sewage. Even the conditions of a water service which is sold by meter will cause a considerable difference in the character of the sewage.

The State of Massachusetts has for many years made a study of these variable quantities, and has published yearly most valuable data.

With the same end in view this board has, with its increased facilities for chemical analyses, undertaken to consider the stable and the varying conditions attending the disposal of the sewage wastes of those cities in the State which have made an effort to purify their sewage before final disposal. These cities are Pawtucket, Woonsocket, and Central Falls.

All of these cities, realizing that to dispose of their crude sewage by delivering it untreated into the streams near them would sooner or later call for censure, made provision to meet the existing conditions.

The city of Pawtucket, in 1894, established a filtration system for the treatment of the sewage from a certain section.

The system includes the reception of the sewage, for a period of from eight to twelve hours, in tanks 100 feet long, 30 feet wide, and 3 feet deep. Being held in one of the two tanks for such time as is required for it to flow through from one end to the other, a certain amount of sedimentation takes place, and the supernatant fluid flows over into the second tank. From this latter, at certain intervals, the fluid sewage is discharged upon sand beds, which, after a certain period of rest, are again closed, or treated with another flowage.

With this experiment, the city engineer of Pawtucket, Mr. George A. Carpenter, has undertaken a series of comprehensive tests to determine the most advantageous means of treating the sewage of his city. Accordingly, in conjunction with the facilities offered by the laboratories of the board, a test was made of the efficiency of the different filters under varying conditions, different forms of filtering media were utilized, and the so-called "septic" treatment was given an extended trial.

The conditions of these various tests during the year will be found under the report of the city engineer of Pawtucket, on pages 23 to 35 inclusive. The results, also, are given in the following tables.

The city of Woonsocket, having a sewage of an entirely different character than that produced at Pawtucket, being weaker, utilizes the filtration system only, and equally good results are obtained as with the more complex sewage of the first city. The results are given in the following tables.

The city of Central Falls, having a sewage also weaker than that in Pawtucket, has tried the filtration and the septic system, and although the detail of results have not been so thoroughly carried out, yet enough information has been obtained to show where defects exist and wherein they may be improved. The results are given in the following tables.

The data obtained from all these results are extremely instruc-

tive, not only to the cities for which the work has been done, but offer suggestions for other boards of health and cities to whom these problems are liable to occur at any time.

It is hoped that they will serve as a contribution to the extensive and valuable reports issued by the Massachusetts State Board of Health.

The results are not commented upon in this issue, owing to the short time during which the experiments have been carried on, and because some of the work has been extended into the next year.

The analyses are given in the order of sewage, septic sewage, and effluents from different beds. At the Woonsocket plant the septic process is not used. The sewage of Pawtucket is the heaviest. Good results have been obtained with the use of the septic process, both in Pawtucket and Central Falls. The purification of the sewage is considerable at all three places, the effluent after filtration being as clear as a spring water.

The effluent from the filter beds at Central Falls is delivered into a small stream. Analyses of water taken from this stream at a point above where the effluent discharges into it have been made at the same time that the determinations on the effluent sewage were made. This has been done for the purpose of determining whether the addition of the sewage effluent caused an increased contamination of the stream, or if the water in the stream above was not of a poorer quality than the purified sewage.

A description of the plant located at Pawtucket may be found on pages 24-33, together with cost of operation and data connected with the operation of the plant.

The city of Providence has established a system of chemical purification and sedimentation for all the sewage of the city. Reference to the plant will be found on page 42, accompanied with plans and views of the tanks, chemical house, and sludge press house, and one of the interior of the press room.

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of the City of Pawtucket, the sample being taken from the crude sewage as it is being collected in the receiving tank.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Oxygen consumed. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
|                        |             |           |        |                                 |                   |        |          |             |              |                |           |              |              |                  |                    |
| Jan. 22.....           |             |           |        | 97.4                            | 52.6              | 44.8   | 4.90     | .97         | .50          | .47            | 6.20      | .....        | .....        | 13.80            | 16,120,000         |
| Jan. 30.....           |             |           |        | 63.2                            | 38.2              | 25.0   | 5.80     | .85         | .57          | .28            | 6.40      | .....        | .....        | 9.00             | 14,260,000         |
| Monthly avg. ....      |             |           |        | 80.3                            | 45.4              | 34.9   | 5.85     | .91         | .54          | .37            | 6.30      | .....        | .....        | 11.40            | 15,190,000         |
| Feb. 13.....           |             |           |        | 104.8                           | 49.4              | 55.4   | 20.40    | 1.70        | 1.01         | .69            | 20.66     | .....        | .....        | 14.90            | 9,720,000          |
| Feb. 20.....           |             |           |        | 123.6                           | 57.2              | 66.4   | 16.80    | 2.32        | 1.98         | .34            | 23.82     | .....        | .....        | 18.70            | Too numer-<br>ous, |
| Feb. 27.....           |             |           |        | 88.6                            | 51.6              | 36.0   | 7.80     | 1.49        | .62          | .87            | 8.86      | .....        | .....        | 16.00            | 6,485,000          |
| Monthly avg. ....      |             |           |        | 105.7                           | 53.1              | 52.6   | 15.00    | 1.83        | 1.20         | .63            | 17.78     | .....        | .....        | 16.53            | 8,102,500          |
| Mar. 14.....           |             |           |        | 91.4                            | 66.2              | 35.2   | 6.00     | .88         | .60          | .28            | 7.02      | .....        | .....        | 13.70            | 15,655,000         |
| Mar. 28.....           |             |           |        | 108.4                           | 77.1              | 31.0   | 6.60     | 1.31        | .72          | .59            | 8.62      | .....        | .....        | 22.70            | 10,015,000         |
| Monthly avg. ....      |             |           |        | 99.9                            | 71.8              | 28.1   | 6.30     | 1.10        | .66          | .44            | 7.82      | .....        | .....        | 18.20            | 12,835,000         |
| April 10.....          |             |           |        | 49.0                            | 28.8              | 20.2   | 4.50     | .71         | .31          | .40            | 6.38      | .....        | .....        | 7.40             | 23,684,000         |
| May 1.....             |             |           |        | 87.4                            | 51.6              | 35.8   | 6.20     | .86         | .75          | .11            | 7.72      | .....        | .....        | 12.90            | 3,350,000          |
| May 15.....            |             |           |        | 77.2                            | 55.8              | 21.4   | 6.80     | .99         | .51          | .45            | 9.18      | .....        | .....        | 10.60            | 53,320,000         |
| May 28.....            |             |           |        | 84.0                            | 47.6              | 36.4   | 5.40     | 1.12        | .52          | .60            | 12.58     | .....        | .....        | 11.70            | 50,220,000         |
| Monthly avg. ....      |             |           |        | 82.9                            | 51.7              | 31.2   | 6.13     | .99         | .60          | .39            | 9.83      | .....        | .....        | 11.73            | 35,640,000         |



## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of the City of Pawtucket, the sample being taken from the crude sewage as it is being collected in the receiving tank.—Concluded.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Oxygen Consumed. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| June 12.....           |             |           |        | 105.4                           | 62.2              | 43.2   | 7.00     | 1.66        | .78          | .88            | 11.60     |              |              | 15.56            | 16,120,000         |
| June 26.....           |             |           |        | 102.6                           | 55.0              | 47.6   | 8.20     | 1.08        | .53          | .55            | 15.64     |              |              | 10.90            | 16,230,000         |
| Monthly avg.....       |             |           |        | 104.0                           | 58.6              | 45.4   | 7.60     | 1.37        | .66          | .71            | 13.62     |              |              | 13.20            | 16,175,000         |
| July 10.....           |             |           |        | 91.8                            | 49.0              | 42.8   | 9.00     | 1.30        | .78          | .52            | 13.58     |              |              | 10.90            | 11,250,000         |
| July 24.....           |             |           |        | 112.4                           | 53.6              | 58.8   | 8.20     | 1.45        | .48          | .97            | 13.84     |              |              | 12.70            | 8,070,000          |
| Monthly avg.....       |             |           |        | 102.1                           | 51.3              | 50.8   | 8.60     | 1.38        | .63          | .75            | 13.71     |              |              | 11.80            | 9,660,000          |
|                        |             |           |        | *                               | *                 | *      | *        | *           | *            | *              | *         |              |              | *                | *                  |
| Aug. 22.....           |             |           |        | 87.0                            | 48.0              | 39.0   | 8.40     | 1.09        | .60          | .49            | 10.16     |              |              | 13.70            | 8,210,000          |
| Sept. 4.....           |             |           |        | 102.6                           | 44.4              | 58.2   | 9.20     | 1.40        | .70          | .70            | 14.36     |              |              | 11.10            | 4,580,000          |
| Oct. 2.....            |             |           |        | 82.2                            | 46.4              | 35.8   | 8.40     | 1.24        | .80          | .44            | 11.34     |              |              | 10.10            | 65,800,000         |
| Oct. 16..              |             |           |        | 96.8                            | 52.0              | 44.8   | 8.80     | 1.36        | .93          | .43            | 12.98     |              |              | 14.30            | 24,760,000         |
| Oct. 30.....           |             |           |        | 106.6                           | 61.8              | 44.8   | 9.20     | 1.57        | .65          | .92            | 14.26     |              |              | 14.70            | 14,260,000         |
| Monthly avg.....       |             |           |        | 95.2                            | 53.4              | 41.8   | 8.80     | 1.39        | .80          | .59            | 12.86     |              |              | 13.03            | 34,940,000         |
| Yearly avg..           |             |           |        | 93.1                            | 52.5              | 40.6   | 8.38     | 1.27        | .72          | .55            | 11.76     |              |              | 13.27            | 19,586,363         |

\* Septic tank discontinued.



## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of the Septic Sewage of the City of Pawtucket, taken from the septic tank, having been subjected to these conditions for from eight to ten hours.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE, |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Oxygen Consumed. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Jan. 2.....            |             |           |        | 63.2                            | 36.4              | 26.8   | 7.00     | .83         | .71          | .12            | 7.28      |              |              | 10.10            | 4,260,000          |
| Jan. 16.....           |             |           |        | 52.4                            | 13.6              | 38.8   | 3.80     | .34         | .21          | .13            | 2.88      |              |              | 5.30             | 70,000             |
| Jan. 30.....           |             |           |        | 61.0                            | 34.2              | 26.8   | 7.00     | .84         | .60          | .24            | 7.68      |              |              | 10.50            | 8,265,000          |
| Monthly avg. ....      |             |           |        | 58.9                            | 28.1              | 30.8   | 5.93     | .67         | .51          | .16            | 5.95      |              |              | 8.63             | 4,198,000          |
| Feb. 13.....           |             |           |        | 62.4                            | 32.6              | 29.8   | 8.00     | .84         | .64          | .20            | 7.80      |              |              | 11.00            | 5,865,000          |
| Feb. 20.....           |             |           |        | 58.4                            | 30.6              | 27.8   | 7.00     | .83         | .65          | .18            | 7.32      |              |              | 11.90            | 1,060,000          |
| Feb. 27.....           |             |           |        | 67.0                            | 37.2              | 29.8   | 7.40     | .88         | .75          | .13            | 8.42      |              |              | 12.30            | 3,081,400          |
| Monthly avg. ....      |             |           |        | 62.6                            | 33.5              | 29.1   | 7.47     | .85         | .68          | .17            | 7.85      |              |              | 11.73            | 3,335,467          |
| Mar. 13.....           |             |           |        | 47.6                            | 24.4              | 23.2   | 2.80     | .48         | .38          | .10            | 4.02      |              |              | 8.80             | 1,880,000          |
| April 11.....          |             |           |        | 54.4                            | 30.2              | 24.2   | 5.40     | .66         | .41          | .22            | 7.42      |              |              | 8.50             | 8,760,000          |
| May 2.....             |             |           |        | 48.8                            | 21.8              | 27.0   | 6.00     | .69         | .60          | .09            | 8.02      |              |              | 7.50             | 622,480,000        |
| May 15.....            |             |           |        | 67.2                            | 31.6              | 35.6   | 8.20     | .74         | .63          | .11            | 12.02     |              |              | 7.30             | 11,440,000         |
| May 28.....            |             |           |        | 71.0                            | 40.0              | 31.0   | 7.80     | .74         | .60          | .08            | 12.18     |              |              | 8.40             | 9,300,000          |
| Monthly avg. ....      |             |           |        | 63.3                            | 31.1              | 32.2   | 7.33     | .72         | .63          | .09            | 10.74     |              |              | 7.73             | 214,406,667        |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of the Septic Sewage of the City of Pawtucket, taken from the septic tank, having been subjected to these conditions for from eight to ten hours.—Concluded.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              | Oxygen Consumed. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. |                  |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| June 12.....           | .....       | .....     | .....  | 67.6                            | 30.8              | 36.8   | 7.40     | .82         | .70          | .12            | 11.70     | .....        | .....        | 7.30             | 11,020,000         |
| June 26.....           | .....       | .....     | .....  | 61.4                            | 30.2              | 31.2   | 6.20     | .59         | .48          | .11            | 9.02      | .....        | .....        | 6.80             | 15,650,000         |
| Monthly avg.           | .....       | .....     | .....  | 64.5                            | 30.5              | 34.0   | 6.80     | .71         | .59          | .12            | 10.36     | .....        | .....        | 7.05             | 8,890,000          |
| July 10.....           | .....       | .....     | .....  | 74.8                            | 34.4              | 40.4   | 7.40     | .80         | .56          | .24            | 12.80     | .....        | .....        | 6.60             | 16,100,000         |
| July 24.....           | .....       | .....     | .....  | 65.0                            | 27.4              | 37.6   | 6.20     | .63         | .50          | .13            | 11.38     | .....        | .....        | 7.20             | 1,260,000          |
| Monthly avg.           | .....       | .....     | .....  | 69.9                            | 30.9              | 39.0   | 6.80     | .72         | .53          | .19            | 12.09     | .....        | .....        | 6.90             | 8,680,000          |
| Yearly avg..           | .....       | .....     | .....  | 61.7                            | 30.4              | 31.3   | 6.51     | .81         | .64          | .17            | 8.06      | ....         | .....        | 8.66             | 48,032,760         |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of the Effluent or Filtered Sewage of the City of Pawtucket, being taken from the effluent pipe from regular sand beds numbered 10 and 11.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |             | RESIDUE ON<br>EVAPORA-<br>TION. |        |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |                  | Bacteria per c. c. |
|------------------------|-------------|-------------|---------------------------------|--------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment.   | Color.                          | Total. | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |             |                                 |        |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Jan. 17.....           | sl.         | v. sl.      | 1.40                            | 24.7   | 5.1               | 19.6   | 4.40     | .1480       | .1440        | .0040          | 5.44      | .090         | .0060        | 2.28             | 498,000            |
| Feb. 14... ..          | 0           | "           | 1.40                            | 38.7   | 14.4              | 24.3   | 6.48     | .2600       | .1840        | .0760          | 7.40      | .029         | 0            | 3.80             | 722,500            |
| Mar. 14.....           | sl.         | "           | 1.25                            | 36.2   | 11.2              | 25.0   | 5.60     | .1100       | .1040        | .0060          | 6.20      | .032         | .0030        | 2.68             | 200,000            |
| May 16.....            | d.          | "           | rd.<br>br.                      | 43.7   | 15.2              | 28.5   | 2.80     | .1010       | .1000        | .0040          | 8.22      | 1.750        | .0600        | 1.58             | 159,000            |
| June 13.....           | sl.         | dist.       | rd.<br>br.                      | 50.7   | 13.0              | 37.7   | 2.16     | .1320       | .0960        | .0360          | 11.76     | 2.140        | .0600        | 1.28             | 5,000              |
| July 10.....           | v. sl.      | Inorg<br>d. | .22                             | 53.5   | 18.6              | 34.9   | 1.16     | .0660       | .0380        | .0280          | 9.98      | 3.490        | .0260        | .66              | 47,500             |
| Nov. 26.....           | dist.       | sl.         | br.                             | .....  | .....             | .....  | 1.96     | .0820       | .0780        | .0040          | 6.40      | .620         | .0200        | 2.62             | 998,200            |
| Yearly avg..           | sl.         | sl.         | ....                            | 41.2   | 12.9              | 28.3   | 3.51     | .1289       | .1063        | .0226          | 7.91      | 1.164        | .0250        | 2.13             | 375,748            |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of the Effluent or Filtered Sewage of the City of Pawtucket, being taken from the effluent pipe from regular sand beds numbered 12 and 13.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |             | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |                  | Bacteria per c. c. |
|------------------------|-------------|-----------|-------------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color.      | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |           |             |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Jan. 3.....            | d.          | v. sl.    | .86         | 29.1                            | 10.8              | 18.3   | 2.80     | .1400       | .1360        | .0040          | 5.64      | 1.55         | .0483        | 2.00             | 118,000            |
| Jan. 31.....           | "           | "         | .86         | 28.8                            | 9.2               | 19.6   | 4.40     | .1680       | .1480        | .0200          | 6.32      | .70          | .0520        | 2.36             | 325,500            |
| Monthly avg.           | "           | "         | .86         | 29.0                            | 10.0              | 19.0   | 3.60     | .1540       | .1420        | .0120          | 5.98      | 1.13         | .0502        | 2.13             | 222,050            |
| Feb. 28.....           | d.          | v. sl.    | .90         | 38.7                            | 13.3              | 25.4   | 6.40     | .2400       | .2280        | .0120          | 7.52      | .07          | .0010        | 3.58             | 445,000            |
| May 3.....             | gr.         | d.        | br.<br>iron | 45.9                            | 18.7              | 27.2   | 2.80     | .1280       | .1160        | .0120          | 6.00      | 3.46         | .0600        | 1.62             | 422,000            |
| May 29.....            | v. sl.      | sl.       | .20         | 64.7                            | 31.9              | 32.8   | 1.40     | .0520       | .0380        | .0140          | 9.32      | 4.38         | .0180        | .88              | 2,139,000          |
| Monthly avg.           | .....       | .....     | ...         | 55.3                            | 25.3              | 30.0   | 2.10     | .0900       | .0770        | .0130          | 7.66      | 3.92         | .0390        | 1.25             | 1,280,500          |
| June 26.....           | v. sl.      | sl.       | .16         | 64.3                            | 26.3              | 38.0   | 1.64     | .0440       | .0420        | .0020          | 9.62      | 4.81         | .0300        | .71              | 30,000             |
| July 24.....           | 0           | trace     | .14         | 53.9                            | 23.2              | 30.7   | .88      | .0300       | .0300        | .0000          | 10.38     | 4.57         | .0140        | .46              | 103,000            |
| Nov. 13.....           | v. sl.      | 0         | .21         | 42.8                            | 20.8              | 22.0   | .88      | .0440       | .0440        | .0000          | 6.80      | 3.95         | .0100        | .74              | 190,000            |
| Yearly avg..           | sl.         | sl.       | ....        | 46.0                            | 19.3              | 26.7   | 2.65     | .1058       | .0978        | .0080          | 7.70      | 2.94         | .0292        | 1.54             | 471,650            |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of Effluent obtained from bed 14, which is a contact bed, made of crushed stone, for the purpose of treating the septic sewage.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              |                  | Bacteria per c.c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|-------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. | Oxygen Consumed. |                   |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                   |
| Jan. 10.....           | gr.         | sl.       | br.    | .....                           | .....             | .....  | 2.84     | .3240       | .2560        | .0680          | 6.84      | .02          | 0            | 3.10             | 17,980,000        |
| Feb. 14.....           | gr.         | v. sl.    | br.    | .....                           | .....             | .....  | 4.40     | .4000       | .2840        | .1160          | 7.88      | .13          | .0010        | 4.00             | 2,960,000         |
| April 11.....          | gr.         | sl.       | .60    | .....                           | .....             | .....  | 2.88     | .2600       | .1880        | .0720          | 7.98      | .87          | .0060        | 3.10             | 4,260,000         |
| May 16.....            | gr.         | v. sl.    | br.    | .....                           | .....             | .....  | 2.96     | .4360       | .2960        | .1400          | 9.58      | .11          | .0140        | 4.72             | 2,511,000         |
| June 13.....           | gr.         | sl.       | br.    | .....                           | .....             | .....  | 5.20     | .4640       | .4400        | .0240          | 13.00     | .04          | 0            | 4.32             | 81,000            |
| June 26.....           | "           | "         | "      | .....                           | .....             | .....  | 2.80     | .3200       | .3000        | .0200          | 9.78      | .02          | 0            | 3.68             | 3,370,000         |
| Monthly avg.           | "           | "         | "      | .....                           | .....             | .....  | 4.00     | .3920       | .3700        | .0220          | 11.39     | .03          | 0            | 4.00             | 1,725,500         |
| July 24.....           | gr.         | dlst.     | .90    | .....                           | .....             | .....  | 2.64     | .3320       | .2800        | .0520          | 10.20     | .04          | 0            | 3.40             | 1,400,000         |
| Oct. 30.....           | dec.        | sl.       | br.    | .....                           | .....             | .....  | 2.32     | .3680       | .1880        | .1800          | 7.02      | .01          | 0            | 3.64             | 2,560,000         |
| Yearly avg.,           | gr.         | sl.       | ....   | .....                           | .....             | .....  | 3.26     | .3630       | .2790        | .0840          | 8.45      | .14          | .0026        | 3.75             | 4,390,250         |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of Effluent obtained from Bed 15, which is a contact bed, made of soft coke cinders, for the purpose of treating the septic sewage.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |            | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Oxygen Consumed. | Bacteria per c. c. |
|------------------------|-------------|-----------|------------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color.     | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |                    |
|                        |             |           |            |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Jan. 3.....            | gr.         | sl.       | .80        | .....                           | .....             | .....  | 2.40     | .3520       | .2680        | .0840          | 6.20      | .770         | .0200        | 4.00             | 9,349,000          |
| Jan. 17.....           | d.          | v. sl.    | .55        | .....                           | .....             | .....  | .90      | .1040       | .0800        | .0240          | 4.22      | 2.410        | .0120        | 1.18             | 140,000            |
| Jan. 31.....           | gr.         | sl.       | br.<br>.80 | .....                           | .....             | .....  | 3.32     | .2840       | .2400        | .0440          | 6.78      | 1.270        | .0060        | 3.02             | 3,330,000          |
| Monthly avg.           | "           | sl.       | .72        | .....                           | .....             | .....  | 2.21     | .2467       | .1960        | .0507          | 5.73      | 1.483        | .0127        | 2.73             | 4,273,000          |
| Feb. 14.....           | gr.         | v. sl.    | br.        | .....                           | .....             | .....  | 3.12     | .2640       | .2400        | .0240          | 7.82      | .700         | .0020        | 2.88             | 1,805,000          |
| Feb. 28.....           | d.          | v. sl.    | br.        | ...                             | ...               | ...    | 3.20     | .3200       | .2320        | .0880          | 7.90      | 1.090        | .0050        | 3.84             | 860,000            |
| Monthly avg.           | .....       | v. sl.    | br.        | .....                           | .....             | .....  | 3.16     | .2920       | .2360        | .0560          | 7.86      | .895         | .0035        | 3.36             | 832,500            |
| Mar. 14.....           | d.          | sl.       | br.<br>.65 | .....                           | .....             | .....  | 1.42     | .2100       | .1420        | .0680          | 4.40      | 1.640        | .0300        | 2.58             | 1,495,000          |
| April 11.....          | gr.         | sl.       | .60        | .....                           | .....             | .....  | 2.72     | .2400       | .1760        | .0640          | 7.98      | 1.340        | .0180        | 3.00             | 2,590,000          |
| May 3.....             | gr.         | v. sl.    | .50        | .....                           | .....             | .....  | 2.44     | .2600       | .1800        | .0800          | 6.38      | .910         | .0160        | 2.72             | 1,742,000          |
| May 16.....            | "           | v. sl.    | br.        | .....                           | .....             | .....  | 3.60     | .3800       | .2600        | .1200          | 9.68      | .031         | 0            | 3.80             | 5,146,000          |
| May 28.....            | d.          | sl.       | br.        | .....                           | .....             | .....  | 2.32     | .2640       | .2160        | .0480          | 7.76      | .930         | .0640        | 3.24             | .....              |
| Monthly avg.           | gr.         | v. sl.    | ....       | .....                           | .....             | .....  | 2.79     | .3013       | .2187        | .0826          | 7.94      | .624         | .0267        | 3.25             | 3,444,000          |



## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of Effluent obtained from Bed 15, which is a contact bed, made of soft coke cinders, for the purpose of treating the septic sewage.—Continued.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |             | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Bacteria per c. c. |                  |
|------------------------|-------------|-----------|-------------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|--------------------|------------------|
|                        | Turbidity.  | Sediment. | Color.      | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                    | Oxygen Consumed. |
|                        |             |           |             |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                    |                  |
| June 13.....           | gr.         | sl.       | br.         | .....                           | .....             | .....  | 5.20     | .4600       | .4440        | .0160          | 13.04     | .035         | 0            | 4.18               | 3,472,000        |
| June 26 .....          | "           | "         | "           | .....                           | .....             | .....  | 4.48     | .2200       | .2080        | .0120          | 9.96      | .020         | 0            | 2.88               | 47,500           |
| Monthly avg.           | "           | "         | "           | .....                           | .....             | .....  | 4.84     | .3400       | .3260        | .0140          | 11.50     | .028         | 0            | 3.53               | 1,759,750        |
| July 10.....           | gr.         | d.        | br.         | .....                           | .....             | .....  | 3.76     | .4480       | .3040        | .1440          | 9.98      | .044         | 0            | 3.64               | 5,610,000        |
| July 18.....           | dec.        | sl.       | br.<br>.80  | .....                           | .....             | .....  | 2.80     | .2960       | .2240        | .0720          | 10.82     | .014         | 0            | 2.64               | 1,269,000        |
| July 24.....           | gr.         | dist.     | br.<br>1.00 | .....                           | .....             | .....  | 2.64     | .3120       | .2120        | .1000          | 10.38     | .015         | 0            | 2.92               | 1,271,000        |
| Monthly avg.           | "           | .....     | .....       | .....                           | .....             | .....  | 3.07     | .3520       | .2407        | .1053          | 10.39     | .024         | 0            | 3.07               | 2,713,667        |
| Sept. 4.....           | gr.         | dec.      | .95         | .....                           | .....             | .....  | 2.64     | .3000       | .2240        | .0760          | 11.78     | .050         | .1000        | 2.44               | 17,860,000       |
| Oct. 2.....            | dec.        | dlst.     | 1.00        | .....                           | .....             | .....  | 2.20     | .2960       | .2400        | .0560          | 7.00      | .040         | 0            | 2.36               | 11,190,000       |
| Oct. 16.....           | "           | sl.       | .80         | .....                           | .....             | .....  | 1.84     | .2560       | .1600        | .0960          | 6.82      | .010         | .0010        | 2.50               | 121,600,000      |
| Oct. 30.....           | "           | "         | br.         | .....                           | .....             | .....  | 2.08     | .2560       | .1760        | .0800          | 6.70      | .001         | .0100        | 2.66               | 2,860,000        |
| Monthly avg.           | "           | .....     | .....       | .....                           | .....             | .....  | 2.04     | .2693       | .1920        | .0773          | 6.84      | .018         | .0137        | 2.51               | 45,213,333       |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of Effluent obtained from Bed 15, which is a contact bed, made of soft coke cinders, for the purpose of treating the septic sewage.—Concluded.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |            | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Bacteria per c. c. |                  |
|------------------------|-------------|-----------|------------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|--------------------|------------------|
|                        | Turbidity.  | Sediment. | Color.     | Total                           | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                    | Oxygen Consumed. |
|                        |             |           |            |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                    |                  |
| Nov. 14.....           | gr.         | dec.      | br.        | ....                            | ....              | ....   | 1.68     | .3160       | .2180        | .0680          | 6.98      | 1.74         | .0700        | 3.44               | liquefied.       |
| Nov. 27.....           | dec.        | sl.       | "          | ....                            | ....              | ....   | 1.24     | .2960       | .2640        | .0320          | 6.44      | .39          | .0500        | 3.60               | 5,425,000        |
| Monthly avg. ....      | .....       | .....     | "          | ....                            | ....              | ....   | 1.46     | .3060       | .2560        | .0500          | 6.71      | 1.07         | .0600        | 3.52               | .....            |
| Dec. 12.....           | dec.        | sl.       | br.<br>.60 | ....                            | ....              | ....   | 1.58     | .2300       | .1520        | .0780          | 5.78      | .61          | .0520        | 2.84               | 15,500           |
| Dec. 26.....           | "           | "         | br.<br>.70 | ....                            | ....              | ....   | 1.80     | .2340       | .1880        | .0460          | 4.50      | .47          | .0480        | 3.32               | 631,000          |
| Monthly avg. ....      | "           | "         | br.<br>.65 | ....                            | ....              | ....   | 1.69     | .2320       | .1700        | .0620          | 5.14      | .54          | .0500        | 3.08               | 323,250          |
| Yearly avg. ....       | .....       | .....     | .....      | .....                           | .....             | .....  | 2.72     | .2996       | .2311        | .0685          | 5.09      | 1.001        | .0250        | 3.03               | 9,390,429        |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of Effluent obtained from Small Experimental Filter representing a contact bed, No. 16, made of coke, for the purpose of further treating the effluent received from bed 15, making a double contact treatment.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |            | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |                  | Bacteria per c. c. |
|------------------------|-------------|-----------|------------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color.     | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |           |            |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Jan. 3 .....           | gr.         | v. sl.    | .50        | ....                            | ....              | ....   | 1.30     | .2400       | .2160        | .0240          | 6.20      | 1.61         | .0200        | 2.60             | 3,298,400          |
| Jan. 17.....           | sl.         | "         | .50        | ....                            | ....              | ....   | .60      | .0960       | .0500        | .0460          | 5.16      | 2.53         | .0200        | 1.10             | 8,500              |
| Monthly avg. ....      | "           | "         | .50        | ....                            | ....              | ....   | .95      | .1680       | .1320        | .0350          | 5.68      | 2.07         | .0200        | 1.85             | 1,653,450          |
| Feb. 28.....           | d.          | v. sl.    | br.        | ....                            | ....              | ....   | 2.40     | .2760       | .1720        | .1040          | 7.88      | 1.31         | .0260        | 3.30             | 380,000            |
| Mar. 14.....           | "           | sl.       | br.<br>.55 | ....                            | ....              | ....   | 1.12     | .1580       | .1220        | .0360          | 4.72      | 1.76         | .0460        | 2.10             | 197,100            |
| April 11.....          | "           | v. sl.    | br.<br>.50 | ....                            | ....              | ....   | 2.24     | .2340       | .1380        | .0960          | 7.98      | 1.61         | .0600        | 2.52             | 713,000            |
| May. 2.....            | "           | "         | .40        | ....                            | ....              | ....   | 1.60     | .1760       | .1640        | .0120          | 6.28      | 1.50         | .0400        | 2.16             | 1,442,500          |
| May 16.....            | "           | "         | br.        | ....                            | ....              | ....   | 2.80     | .2520       | .1760        | .0760          | 9.92      | 1.29         | .0320        | 2.66             | 1,320,000          |
| May 28.....            | "           | "         | .55        | ....                            | ....              | ....   | 1.20     | .2210       | .1160        | .1080          | 7.80      | 1.52         | .0200        | 2.48             | 1,160,000          |
| Monthly avg.           | "           | v. sl.    | ....       | ....                            | ....              | ....   | 1.87     | .2173       | .1520        | .0653          | 8.00      | 1.44         | .0307        | 2.43             | 1,307,500          |
| June 13.....           | d.          | v. sl.    | br.        | ....                            | ....              | ....   | 2.60     | .3440       | .2520        | .0920          | 13.78     | 2.24         | .0080        | 2.94             | 3,472,000          |
| June 26.....           | "           | sl.       | "          | ....                            | ....              | ....   | 1.60     | .2760       | .2000        | .6760          | 9.96      | 1.51         | .3000        | 2.56             | 2,062,000          |
| Monthly avg.           | "           | .....     | "          | ....                            | ....              | ....   | 2.10     | .3100       | .2260        | .0840          | 11.87     | 1.88         | .1540        | 2.75             | 2,767,000          |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of Effluent obtained from Small Experimental Filter representing a contact bed, No. 16, made of coke, for the purpose of further treating the effluent received from bed 15, making a double contact treatment.—Concluded.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |            | RESIDUE<br>ON EVAPO-<br>RATION. |                   |      | AMMONIA. |       |             |              | NITROGEN.      |           |              |              | Bacteria per c. c. |                  |
|------------------------|-------------|-----------|------------|---------------------------------|-------------------|------|----------|-------|-------------|--------------|----------------|-----------|--------------|--------------|--------------------|------------------|
|                        | Turbidity.  | Sediment. | Color.     | Total.                          | Loss on Ignition. |      | Fixed.   | Free. | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                    | Oxygen Consumed. |
|                        |             |           |            |                                 |                   |      |          |       | Total.      | In Solution. | In Suspension. |           |              |              |                    |                  |
| July 10.....           | d.          | sl.       | .60        | ....                            | ....              | .... | 2.24     | .3080 | .1560       | .1520        | 10.40          | 2.33      | .3100        | 2.70         | 2,350,000          |                  |
| Sept. 4.....           | d.          | sl.       | .70        | ....                            | ....              | .... | 1.60     | .2640 | .1680       | .0960        | 11.74          | 1.54      | .2000        | 2.20         | 1,674,000          |                  |
| Oct. 2.....            | dec.        | sl.       | .47        | ....                            | ....              | ...  | .44      | .1240 | .0920       | .0320        | 6.52           | 1.57      | .0240        | 1.40         | 2,650,000          |                  |
| Oct. 16.....           | "           | v. sl.    | .50        | ....                            | ....              | .... | .42      | .1100 | .0960       | .0140        | 6.78           | 1.53      | .0060        | 1.58         | 312,500            |                  |
| Oct. 30.....           | d.          | sl.       | .50        | ....                            | ...               | .... | .42      | .1560 | .0960       | .0600        | 6.78           | 1.22      | .0060        | 1.74         | 470,000            |                  |
| Monthly avg. ....      | .....       | .....     | .49        | ....                            | ....              | .... | .43      | .1300 | .0947       | .0353        | 6.69           | 1.44      | .0120        | 1.57         | 1,144,167          |                  |
| Nov. 14.....           | gr.         | v. sl.    | br.<br>.85 | ....                            | ....              | .... | .48      | .1560 | .1240       | .0320        | 7.02           | 2.42      | .0030        | 1.74         | 840,000            |                  |
| Nov. 27.....           | dec.        | "         | br.<br>.80 | ....                            | ....              | .... | .70      | .1520 | .1380       | .0140        | 6.42           | 1.72      | .0030        | 1.84         | 1,387,000          |                  |
| Monthly avg. ....      | .....       | "         | br.<br>.83 | ....                            | ....              | .... | .59      | .1540 | .1310       | .0230        | 6.72           | 2.07      | .0030        | 1.79         | 1,113,500          |                  |
| Yearly avg..           | d.          | v. sl.    | ....       | ....                            | ....              | .... | 1.40     | .2086 | .1456       | .0630        | 7.96           | 1.72      | .0661        | 2.21         | 1,396,294          |                  |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of Effluent obtained from Bed 17, which is a contact bed, made of cinders, for the purpose of treating the septic sewage.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |            | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Bacteria per c. c. |                  |
|------------------------|-------------|-----------|------------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|--------------------|------------------|
|                        | Turbidity.  | Sediment. | Color.     | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                    | Oxygen Consumed. |
|                        |             |           |            |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                    |                  |
| Jan. 3.....            | gr.         | v. sl.    | .50        | ....                            | ....              | ....   | .70      | .1920       | .1460        | .0460          | 6.20      | 2.41         | .0080        | 2.36               | 3,162,000        |
| Jan. 17.....           | d.          | "         | .50        | ....                            | ....              | ....   | .55      | .1000       | .0480        | .0520          | 5.16      | 3.01         | .0240        | 1.08               | 253,500          |
| Jan. 31.....           | "           | "         | .60        | ....                            | ....              | ....   | 1.60     | .2080       | .1380        | .0700          | 6.50      | 2.01         | .0560        | 1.98               | 483,600          |
| Monthly avg. ....      | "           | "         | .53        | ....                            | ....              | ....   | .95      | .1667       | .1107        | .0560          | 5.95      | 2.48         | .0293        | 1.81               | 1,299,700        |
| Feb. 23.....           | d.          | v. sl.    | br.<br>.60 | ....                            | ....              | ....   | 2.12     | .2080       | .1800        | .0280          | 7.76      | 1.68         | .0400        | 2.88               | 690,000          |
| Mar. 14.....           | "           | sl.       | .55        | ....                            | ....              | ....   | 1.12     | .1040       | .0900        | .0140          | 4.72      | 1.71         | .0460        | 1.70               | 370,940          |
| April 11.....          | "           | v. sl.    | .50        | ....                            | ....              | ....   | 1.92     | .1660       | .1180        | .0480          | 7.74      | 3.02         | .0600        | 3.20               | 899,000          |
| May 2.....             | "           | "         | .40        | ....                            | ....              | ....   | .80      | .1240       | .1080        | .0160          | 6.20      | 2.58         | .0240        | 1.56               | 21,500           |
| May 28.....            | "           | "         | .42        | ....                            | ....              | ....   | .60      | .1520       | .1140        | .0380          | 8.64      | 3.49         | .0300        | 1.80               | 880,000          |
| Monthly avg. ....      | "           | "         | .41        | ....                            | ....              | ....   | .70      | .1380       | .1110        | .0270          | 7.42      | 3.04         | .0270        | 1.68               | 450,750          |
| June 26.....           | d.          | sl.       | br.        | ....                            | ....              | ....   | 2.24     | .2920       | .2060        | .0920          | 9.88      | .64          | .2400        | 2.52               | 20,150,000       |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of Effluent obtained from Bed 17, which is a contact bed, made of cinders, for the purpose of treating the septic sewage.—Concluded.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |            | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |                  |                    |
|------------------------|-------------|-----------|------------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color.     | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen consumed. | Bacteria per c. c. |
|                        |             |           |            |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| July 10.....           | d.          | sl.       | .60        | .....                           | .....             | .....  | 1.28     | .2400       | .1880        | .0520          | 9.80      | 3.90         | .2400        | 2.24             | 1,060,000          |
| July 24.....           | "           | "         | .65        | .....                           | .....             | .....  | .68      | .1960       | .1440        | .0520          | 10.40     | 2.31         | .1100        | 1.96             | 3,379,000          |
| Monthly avg.           | "           | "         | .63        | .....                           | .....             | .....  | .98      | .2180       | .1660        | .0520          | 10.10     | 3.11         | .1750        | 2.10             | 2,219,500          |
| Sept. 4.....           | d.          | dec.      | .45        | .....                           | .....             | .....  | .80      | .2040       | .1200        | .0840          | 11.24     | 3.06         | .0680        | 1.84             | 382,250            |
| Oct. 2.....            | dec.        | sl.       | .70        | .....                           | .....             | .....  | .60      | .1980       | .1400        | .0580          | 6.52      | 1.36         | .0880        | 1.76             | 10,416,000         |
| Oct. 16.....           | "           | v. sl.    | .60        | .....                           | .....             | .....  | .68      | .1780       | .1120        | .0660          | 6.70      | 1.08         | .0240        | 2.08             | .....              |
| Monthly avg.           | "           | .....     | .65        | .....                           | .....             | .....  | .64      | .1880       | .1260        | .0620          | 6.61      | 1.22         | .0560        | 1.92             | .....              |
| Nov. 14.....           | gr.         | v. sl.    | br.<br>.85 | .....                           | .....             | .....  | .80      | .2000       | .1680        | .0320          | 7.08      | 2.38         | .0030        | 2.26             | 211,500            |
| Nov. 27.....           | dec.        | sl.       | br.<br>.80 | .....                           | .....             | .....  | .91      | .1620       | .1380        | .0240          | 6.40      | 1.23         | .0040        | 2.76             | 5,401,000          |
| Monthly avg.           | .....       | .....     | br.<br>.83 | .....                           | .....             | .....  | .87      | .1810       | .1530        | .0280          | 6.74      | 1.81         | .0035        | 2.51             | 2,806,250          |
| Dec. 12.....           | dec.        | sl.       | .45        | .....                           | .....             | .....  | .40      | .1260       | .1140        | .0120          | 5.80      | 1.97         | .0500        | 1.66             | 95,600             |
| Dec. 26.....           | "           | v. sl.    | .50        | .....                           | .....             | .....  | .50      | .1340       | .1180        | .0160          | 4.24      | 1.15         | .0040        | 1.83             | 1,116,000          |
| Monthly avg.           | "           | .....     | .48        | .....                           | .....             | .....  | .45      | .1300       | .1160        | .0140          | 5.02      | 1.56         | .0270        | 1.75             | 605,800            |
| Yearly avg..           | d.          | sl.       | ....       | .....                           | .....             | .....  | 1.02     | .1769       | .1325        | .0444          | 7.28      | 2.17         | .0622        | 2.03             | 1,716,038          |



## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of Effluent taken from pipe receiving the combined effluents of all the regular sand filter beds, taken at the point where it discharges into the stream.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |               |            | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              |                  | Bacteria per c. c. |
|------------------------|-------------|---------------|------------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment.     | Color.     | Total.                          | Loss on Ignition. |        | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |               |            |                                 | Total.            | Fixed. |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| June 10.....           | d.          | d.            | br.        | 35.4                            | 10.9              | 24.5   | 4.24     | .1560       | .1400        | .0160          | 6.68      | .13          | .0060        | 2.36             | 469,600            |
| July 5.....            | "           | dist.         | red<br>br. | 46.0                            | 8.5               | 37.5   | 4.00     | .1240       | .1200        | .0040          | 10.78     | lost         | .0130        | 2.34             | 5,000              |
| Aug. 22.....           | dist.       | "             | .41        | 52.5                            | 15.5              | 37.0   | 2.00     | .1200       | .0840        | .0360          | 10.22     | 2.76         | .1040        | 1.64             | 420,000            |
| Sept. 4.....           | 0           | "             | .16        | 47.0                            | 12.4              | 34.6   | 1.32     | .0620       | .0360        | .0260          | 9.62      | 2.83         | .0300        | .90              | 114,500            |
| Oct. 2.....            | v. sl.      | dec.          | .21        | 39.8                            | 15.5              | 24.3   | .74      | .0460       | .0360        | .0100          | 6.90      | 2.97         | .0180        | .84              | 129,500            |
| Oct. 16.....           | "           | dec.<br>floc. | .23        | 45.4                            | 16.4              | 29.0   | 1.06     | .0860       | .0540        | .0320          | 7.00      | 3.05         | .0300        | 1.19             | 30,000             |
| Oct. 30.....           | sl.         | floc.<br>dec. | .23        | 41.8                            | 17.1              | 24.7   | 1.40     | .0620       | .0340        | .0280          | 7.38      | .296         | .0280        | 1.17             | 3,000              |
| Monthly avg. ....      | .....       | .....         | .22        | 42.3                            | 16.3              | 26.0   | 1.07     | .0646       | .0413        | .0233          | 7.09      | 2.99         | .0253        | 1.07             | 54,167             |
| Dec. 12 .. .           | dec.        | v. sl.        | .75        | 29.5                            | 10.3              | 19.2   | 2.80     | .1620       | .1440        | .0180          | 7.80      | 1.08         | .0200        | 2.36             | 1,054,000          |
| Dec. 26. ....          | dist.       | "             | .65        | 26.6                            | 9.4               | 17.2   | 3.60     | .1120       | .1060        | .0060          | 5.78      | .98          | .0300        | 1.31             | 179,800            |
| Monthly avg. ....      | "           | "             | .70        | 28.1                            | 9.9               | 18.2   | 3.20     | .1370       | .1250        | .0120          | 6.79      | 1.03         | .0250        | 1.84             | 616,900            |
| Yearly avg.. ....      | .....       | .....         | .....      | 40.4                            | 12.9              | 27.5   | 2.35     | .1033       | .0838        | .0195          | 8.02      | 2.10         | .0309        | 1.57             | 267,267            |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of the water of the Moshassuck River, which receives the treated sewage of the City of Pawtucket, the sample being taken above the filter fields during the daytime.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |            | RESIDUE<br>ON EVAPO-<br>TION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              |                  | Bacteria per c. c. |
|------------------------|-------------|-----------|------------|-------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color.     | Total.                        | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |           |            |                               |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Jan. 10. ....          | gr.         | d.        | blue       | 45.4                          | 19.6              | 25.8   | .1800    | .4100       | .2360        | .1740          | 4.28      | .049         | .0060        | 4.80             | 590,000            |
| Feb. 21, .....         | d.          | "         | "          | 49.4                          | 19.8              | 29.6   | .2400    | .2480       | .1400        | .1080          | 4.02      | .028         | .0080        | 5.40             | .....              |
| Mar. 20. ....          | "           | "         | "          | 24.1                          | 9.8               | 14.3   | .1000    | .0900       | .0540        | .0360          | 2.06      | .024         | .0030        | 2.22             | 4,480,000          |
| April 18. ....         | "           | "         | .47        | 18.0                          | 7.0               | 11.0   | .0880    | .0660       | .0460        | .0200          | 1.59      | .026         | .0030        | 1.88             | 750,000            |
| May 21. ....           | dist.       | dec.      | br.<br>.70 | 20.8                          | 8.3               | 12.5   | .1800    | .3440       | .1140        | .2300          | 1.57      | .039         | .0075        | 1.92             | 4,955,000          |
| June 18. ....          | gr.         | d.        | blue       | 38.9                          | 13.3              | 25.6   | .3600    | .5920       | .3540        | .2380          | 4.18      | .020         | .0002        | 2.96             | 4,245,000          |
| July 18. ....          | dec.        | hea.      | "          | 47.6                          | 18.6              | 29.0   | .5600    | .4120       | .3040        | .1080          | 4.36      | .014         | 0            | 3.82             | 990,000            |
| Aug. 14. ....          | "           | "         | .60        | 54.2                          | 20.8              | 33.4   | .5600    | .6800       | .4840        | .1960          | 5.98      | .017         | 0            | 4.00             | 2,455,000          |
| Yearly avg..           | d.          | d.        | .....      | 37.3                          | 14.7              | 22.6   | .2835    | .3553       | .2165        | .1388          | 3.51      | .028         | .0035        | 3.38             | 2,637,857          |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of the water of the Moshassuck River, which receives the treated sewage of the City of Pawtucket, the sample being taken above the filter fields during the nighttime.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |              |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Bacteria per c. c. |                  |
|------------------------|-------------|--------------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|--------------------|------------------|
|                        | Turbidity.  | Sediment.    | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                    | Oxygen Consumed. |
|                        |             |              |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                    |                  |
| Feb. 21, 22...         | d.          | sl.          | .50    | 47.2                            | 19.4              | 27.8   | .2800    | .2120       | .1320        | .0800          | 4.24      | .046         | .0070        | 4.56               | .....            |
| Mar. 20, 21...         | sl.         | d.           | .45    | 29.0                            | 12.3              | 16.7   | .1000    | .0760       | .0660        | .0100          | 2.35      | .017         | .0030        | 2.66               | .....            |
| April 18.....          | d.          | sl.          | .45    | 16.3                            | 6.3               | 10.0   | .0480    | .0920       | .0480        | .0440          | 1.42      | .026         | .0016        | 1.54               | 130,000          |
| May 21.....            | sl.         | iron<br>dec. | .55    | 20.9                            | 8.3               | 12.6   | .0200    | .0640       | .0600        | .0040          | 1.51      | .037         | .0030        | 1.56               | 10,470,000       |
| Yearly avg ..          | .....       | .....        | .49    | 28.4                            | 11.6              | 16.8   | .1120    | .0860       | .0515        | .0345          | 2.38      | .032         | .0037        | 2.58               | 202,966,666      |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of the Water of the Moshassuck River, which receives the treated sewage of the City of Pawtucket, the sample being taken below the filter fields during the daytime.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |             | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Bacteria per c. c. |                  |
|------------------------|-------------|-----------|-------------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|--------------------|------------------|
|                        | Turbidity.  | Sediment. | Color.      | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                    | Oxygen Consumed. |
|                        |             |           |             |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                    |                  |
| Feb. 21, 22...         | d.          | d.        | blue        | 44.2                            | 18.2              | 26.0   | .3200    | .1560       | .1360        | .0300          | 3.52      | .014         | .0150        | 5.32               | .....            |
| Mar. 20 .....          | "           | "         | blue<br>.50 | 23.9                            | 10.7              | 13.2   | .1100    | .0900       | .0760        | .0140          | 2.04      | .034         | .0030        | 2.52               | 7,840,000        |
| April 18 .....         | "           | "         | .46         | 18.5                            | 8.1               | 10.4   | .1000    | .0760       | .0580        | .0180          | 1.30      | .026         | .0030        | 2.02               | 1,420,000        |
| May 21, 22...          | dist.       | dec.      | .53         | 22.0                            | 9.5               | 12.5   | .2000    | .1520       | .1340        | .0180          | 1.50      | .018         | .0060        | 1.94               | 2,485,000        |
| June 18 .....          | gr.         | d.        | blue        | 40.5                            | 15.8              | 24.7   | .4000    | .6040       | .3800        | .2240          | 4.02      | .020         | .0002        | 3.40               | 3,470,000        |
| July 18 .....          | dec         | hea.      | "           | 40.5                            | 15.7              | 21.8   | .7000    | .4160       | .2840        | .1320          | 3.66      | .011         | 0            | 3.46               | 570,000          |
| Aug. 14 .....          | "           | "         | .55         | 47.6                            | 16.1              | 31.5   | .5600    | .2960       | .2100        | .0560          | 6.42      | .012         | 0            | 3.36               | 4,030,000        |
| Yearly avg..           | .....       | .....     | .....       | 33.9                            | 13.5              | 20.4   | .3414    | .2557       | .1869        | .0688          | 3.21      | .019         | .0039        | 3.15               | 3,302,500        |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of the water of the Moshassuck River which receives the treated sewage of the City of Pawtucket, the samples being taken below the filter fields during the nighttime.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPORATION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              |                  | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|----------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                     | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |           |        |                            |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Feb. 21, 22...         | d.          | sl.       | .50    | 51.6                       | 21.6              | 30.0   | .2700    | .1640       | .1420        | .0220          | 4.12      | .046         | .0070        | 4.88             | .....              |
| Mar. 20, 21..          | sl.         | d.        | .45    | 31.7                       | 13.8              | 17.9   | .2400    | .0880       | .0620        | .0260          | 2.49      | .025         | .0031        | 2.92             | 557,380,000        |
| April 18 .....         | d.          | sl.       | .45    | 16.9                       | 6.6               | 10.3   | .1020    | .0620       | .0460        | .0160          | 1.31      | .036         | .0020        | 1.60             | 120,000            |
| May 21, 22...          | sl.         | dec.      | .55    | 22.3                       | 9.1               | 13.2   | .2000    | .0760       | .0700        | .0060          | 1.61      | .031         | .0050        | 1.68             | 15,290,000         |
| Yearly avg. ....       | .....       | .....     | .49    | 30.6                       | 12.8              | 17.8   | .2030    | .0975       | .0800        | .0175          | 2.38      | .035         | .0044        | 2.77             | 190,910,000        |

## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of the City of Pawtucket, giving the Average for the Years 1900-1901, Grouped for Comparison of the Quality of the Sewage at Different Points of the system.*

(Parts in 100,000.)

|                      | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              | Bacteria per c. c. |              |                  |
|----------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------------|--------------|------------------|
|                      | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition, | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                    | As Nitrites. | Oxygen Consumed. |
|                      |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                    |              |                  |
| Sewage, 1900 .....   |             |           |        | 103.9                           | 60.1              | 43.8   | 7.77     | 1.45        | .74          | .71            | 10.55     | .....        | .....              | 16.39        | 10,434,800       |
| Sewage, 1901.....    |             |           |        | 93.1                            | 52.5              | 40.6   | 8.38     | 1.27        | .72          | .55            | 11.76     | .....        | .....              | 13.27        | 19,586,263       |
| Septic, 1900.....    |             |           |        | 62.3                            | 30.7              | 31.6   | 7.31     | .79         | .57          | .22            | 8.98      | .....        | .....              | 7.89         | 70,388,414       |
| Septic, 1901.....    |             |           |        | 61.7                            | 30.4              | 31.3   | 6.51     | .81         | .64          | .17            | 8.66      | .....        | .....              | 8.66         | 48,032,760       |
| Beds 10-11, 1900.... |             |           | 56     | 42.5                            | 17.7              | 24.8   | 2.18     | .1616       | .1100        | .0316          | 7.33      | 2.700        | .0262              | 1.90         | 351,120          |
| Beds 10-11, 1901.... | sl.         | sl.       | ....   | 41.2                            | 12.9              | 28.3   | 3.51     | .1289       | .1063        | .0226          | 7.91      | 1.164        | .0250              | 2.13         | 375,743          |
| Beds 12-13, 1900.... |             |           |        | 45.1                            | 18.1              | 27.0   | .98      | .0665       | .0443        | .0222          | 6.98      | 3.630        | .0137              | .95          | 1,463,967        |
| Beds 12-13, 1901.... | sl.         | sl.       | ....   | 46.0                            | 19.3              | 26.7   | 2.65     | .1058       | .0978        | .0080          | 7.70      | 2.940        | .0292              | 1.54         | 471,650          |
| Bed 14, 1900.....    | gr.         | dec.      | ....   | 49.5                            | 17.0              | 32.5   | 4.23     | .4080       | .2863        | .1217          | 9.00      | .052         | .0093              | 3.83         | 4,858,731        |
| Bed 14, 1901 .....   | "           | sl.       | ....   | .....                           | .....             | .....  | 3.26     | .3630       | .2790        | .0840          | 8.45      | .140         | .0026              | 3.75         | 4,390,250        |
| Bed 15, 1900.. ....  |             |           |        | 47.2                            | 14.7              | 32.5   | 3.66     | .3770       | .2770        | .1000          | 8.50      | .262         | .0054              | 3.10         | 3,540,431        |
| Bed 15, 1901.....    |             |           |        | .....                           | .....             | .....  | 2.72     | .2996       | .2311        | .0685          | 8.09      | 1.001        | .0250              | 3.03         | 9,890,429        |



## PAWTUCKET SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of the City of Pawtucket, giving the Average for the years 1900-1901, Grouped for Comparison of the Quality of the Sewage at Different Points of the system.—Concluded.*

(Parts in 100,000.)

|                                            | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              |                  | Bacteria per c. c. |
|--------------------------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                                            | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                                            |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Bed 16, 1901.....                          | d.          | sl.       | .....  | .....                           | .....             | .....  | 1.66     | .2340       | .1753        | .0587          | 6.46      | 1.36         | .0525        | 1.86             | 323,033            |
| Bed 16, 1901.....                          | "           | v. sl.    | .....  | .....                           | .....             | .....  | 1.40     | .2086       | .1456        | .0630          | 7.96      | 1.72         | .0661        | 2.21             | 1,396,294          |
| Bed 17, 1900.. ....                        | d.          | sl.       | .....  | .....                           | .....             | .....  | 1.47     | .2143       | .1820        | .0323          | 6.45      | 1.75         | .0437        | 1.88             | 547,360            |
| Bed 17, 1901.....                          | "           | "         | .....  | .....                           | .....             | .....  | 1.02     | .1769       | .1325        | .0444          | 7.28      | 2.17         | .0622        | 2.03             | 1,716,038          |
| Effluent at river,<br>1900.....            | .....       | .....     | .57    | 50.2                            | 17.9              | 32.3   | 1.71     | .0793       | .0615        | .0178          | 9.38      | 2.77         | .0417        | 1.05             | 183,213            |
| Effluent at river,<br>1901.....            | .....       | .....     | .....  | 40.4                            | 12.9              | 27.5   | 2.35     | .1033       | .0838        | .0195          | 8.02      | 2.10         | .0309        | 1.57             | 267,267            |
| River above filter<br>fields, day, 1900..  | .....       | .....     | .....  | .....                           | .....             | .....  | .....    | .....       | .....        | .....          | .....     | .....        | .....        | .....            | .....              |
| River above filter<br>fields, day, 1901..  | d.          | d.        | ....   | 37.3                            | 14.7              | 22.6   | .2835    | .3553       | .2165        | .1388          | 3.51      | .028         | .0035        | 3.38             | 2,637,857          |
| River above filter<br>fields, night, 1900. | .....       | .....     | .....  | .....                           | .....             | .....  | .....    | .....       | .....        | .....          | .....     | .....        | .....        | .....            | .....              |
| Rlver above filter<br>fields, night, 1901. | .....       | .....     | .49    | 28.4                            | 11.6              | 16.8   | .1120    | .0860       | .0515        | .0345          | 2.38      | .032         | .0037        | 2.58             | 202,966,666        |
| Rlver below filter<br>fields, day, 1900..  | .....       | .....     | .....  | .....                           | .....             | .....  | .....    | .....       | .....        | .....          | .....     | .....        | .....        | .....            | .....              |
| Rlver below filter<br>fields, day, 1901..  | .....       | .....     | .....  | 33.9                            | 13.5              | 20.4   | .3114    | .2557       | .1869        | .0688          | 3.21      | .019         | .0039        | 3.15             | 3,302,500          |
| Rlver below filter<br>fields, night, 1900. | .....       | .....     | .....  | .....                           | .....             | .....  | .....    | .....       | .....        | .....          | .....     | .....        | .....        | .....            | .....              |
| Rlver below filter<br>fields, night, 1901. | sl.         | .....     | .49    | 30.6                            | 12.8              | 17.8   | .2030    | .0975       | .0800        | .0175          | 2.33      | .035         | .0014        | 2.77             | 190,910,000        |

## CENTRAL FALLS SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of the City of Central Falls, the sample being taken from the receiving tank.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              | Oxygen Consumed. | Bacteria per c. e. |              |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|------------------|--------------------|--------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrites. |                  |                    | As Nitrates. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                  |                    |              |
| Jan. 2.....            |             |           |        | 169.2                           | 110.0             | 59.2   | 12.20    | 2.73        | 1.99         | .74            | 20.22     |              |                  | 27.00              | 1,470,000    |
| Jan. 15.....           |             |           |        | 120.4                           | 71.2              | 49.2   | 13.60    | 2.35        | 1.56         | .79            | 18.42     |              |                  | 20.20              | 3,865,000    |
| Jan. 29.....           |             |           |        | 124.6                           | 77.6              | 47.0   | 11.80    | 1.84        | 1.30         | .64            | 11.22     |              |                  | 19.70              | 8,715,000    |
| Monthly avg.           |             |           |        | 138.1                           | 86.3              | 51.8   | 12.53    | 2.31        | 1.58         | .73            | 16.62     |              |                  | 22.30              | 4,683,333    |
| Feb. 12.....           |             |           |        | 162.4                           | 104.8             | 57.6   | 14.20    | 2.60        | 1.46         | 1.14           | 13.01     |              |                  | 25.40              | 9,110,000    |
| Feb. 26.....           |             |           |        | 105.6                           | 60.2              | 45.4   | 5.20     | 1.24        | .71          | .53            | 7.98      |              |                  | 14.90              | 2,465,000    |
| Monthly avg.           |             |           |        | 134.0                           | 82.5              | 51.5   | 9.70     | 1.92        | 1.09         | .83            | 10.50     |              |                  | 20.15              | 5,787,500    |
| Mar. 12.....           |             |           |        | 99.8                            | 61.0              | 38.8   | 4.60     | 1.39        | 1.10         | .29            | 12.38     |              |                  | 13.90              | 3,295,000    |
| April 2.....           |             |           |        | 171.6                           | 113.8             | 57.8   | 4.40     | 1.98        | 1.00         | .98            | 9.76      |              |                  | 28.50              | 9,320,000    |
| April 17. ....         |             |           |        | 283.6                           | 197.4             | 86.2   | 5.60     | 2.96        | 2.06         | .90            | 15.28     |              |                  | 46.80              | 12,890,000   |
| April 30.....          |             |           |        | 211.2                           | 142.4             | 68.8   | 20.00    | 3.74        | 1.72         | 2.02           | 24.84     |              |                  | 27.30              | 30,000,000   |
| Monthly avg.           |             |           |        | 222.1                           | 151.2             | 70.9   | 10.00    | 2.89        | 1.59         | 1.30           | 16.63     |              |                  | 34.20              | 17,403,333   |
| May 14 ....            |             |           |        | 134.4                           | 73.4              | 61.0   | 10.00    | 1.70        | 1.20         | .50            | 18.38     |              |                  | 19.00              | 255,440,000  |
| June 4.....            |             |           |        | 105.0                           | 44.4              | 55.6   | 8.00     | 1.39        | .86          | .53            | 13.50     |              |                  | 18.40              | 11,655,000   |
| June 18.....           |             |           |        | 199.4                           | 60.2              | 139.2  | 12.20    | 1.76        | .94          | .82            | 73.40     |              |                  | 12.90              | 12,335,000   |
| Monthly avg.           |             |           |        | 152.2                           | 54.8              | 97.4   | 10.10    | 1.58        | .90          | .68            | 43.45     |              |                  | 15.65              | 11,995,000   |

## CENTRAL FALLS SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of the City of Central Falls, the sample being taken from the receiving tank.—Concluded.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | Chlorine. | NITROGEN.    |              | Oxygen Consumed. | Bacteria per c. c. |                |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|-----------|--------------|--------------|------------------|--------------------|----------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |           | As Nitrates. | As Nitrites. |                  |                    |                |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. |           |              |              |                  |                    | In Suspension. |
| July 2.....            | .....       | .....     | .....  | 101.0                           | 52.2              | 48.8   | 11.60    | 1.24        | .95          | .29       | 16.98        | .....        | .....            | 11.60              | 22,320,000     |
| July 16.....           | .....       | .....     | .....  | 80.8                            | 45.8              | 35.0   | 13.00    | 1.29        | 1.06         | .23       | 9.78         | .....        | .....            | 11.60              | 22,940,000     |
| July 30.....           | .....       | .....     | .....  | 96.2                            | 56.4              | 39.8   | 11.40    | 1.27        | .84          | .43       | 14.18        | .....        | .....            | 14.60              | 25,815,000     |
| Monthly avg.           | .....       | .....     | .....  | 92.7                            | 51.5              | 41.2   | 12.00    | 1.27        | .95          | .32       | 13.65        | .....        | .....            | 12.60              | 23,691,666     |
| Aug. 13.....           | .....       | .....     | .....  | 120.6                           | 66.0              | 54.6   | 18.00    | 2.09        | .99          | 1.10      | 13.38        | .....        | .....            | 19.90              | 18,910,000     |
| Aug. 27.....           | .....       | .....     | .....  | 109.0                           | 62.4              | 46.6   | 17.60    | 1.71        | 1.25         | .46       | 15.78        | .....        | .....            | 15.20              | 17,930,000     |
| Monthly avg.           | .....       | .....     | .....  | 114.8                           | 64.2              | 50.6   | 17.80    | 1.90        | 1.12         | .78       | 14.58        | .....        | .....            | 17.55              | 18,420,000     |
| Sept. 9.....           | .....       | .....     | .....  | 69.0                            | 37.0              | 32.0   | 7.00     | .96         | .42          | .54       | 11.12        | .....        | .....            | 8.40               | 5,125,000      |
| Oct. 8.....            | .....       | .....     | .....  | 132.4                           | 90.4              | 42.0   | 5.60     | 1.08        | .80          | .28       | 12.16        | .....        | .....            | 13.70              | 9,965,000      |
| Oct. 22.....           | .....       | .....     | .....  | 116.2                           | 72.2              | 44.0   | 15.80    | 1.81        | 1.21         | .60       | 13.10        | .....        | .....            | 15.90              | 13,020,000     |
| Monthly avg.           | .....       | .....     | .....  | 121.3                           | 81.3              | 43.0   | 10.70    | 1.45        | 1.01         | .44       | 12.63        | .....        | .....            | 14.80              | 11,492,500     |
| Nov. 11.....           | .....       | .....     | .....  | 211.0                           | 134.4             | 76.6   | 20.00    | 3.83        | 1.78         | 2.05      | 17.78        | .....        | .....            | 27.30              | 10,410,000     |
| Nov. 25.....           | .....       | .....     | .....  | .....                           | .....             | .....  | 9.80     | 1.53        | 1.31         | .22       | 15.78        | .....        | .....            | 20.30              | 5,260,000      |
| Monthly avg.           | .....       | .....     | .....  | .....                           | .....             | .....  | 14.90    | 2.68        | 1.55         | 1.13      | 16.78        | .....        | .....            | 23.80              | 7,835,000      |
| Yearly avg.            | .....       | .....     | .....  | 139.2                           | 82.8              | 56.4   | 11.44    | 1.93        | 1.20         | .73       | 17.20        | .....        | .....            | 19.66              | 23,284,318     |

## CENTRAL FALLS SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of the City of Central Falls, the sample being taken from the septic tank.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Oxygen Consumed. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Jan. 2.....            | .....       | .....     | .....  | 75.8                            | 27.4              | 48.4   | 10.80    | .73         | .48          | .25            | 11.36     | .....        | .....        | 7.20             | 780,000            |
| Jan. 15.....           | .....       | .....     | .....  | 73.8                            | 30.8              | 43.0   | 9.00     | .88         | .71          | .17            | 14.96     | .....        | .....        | 9.20             | 2,690,000          |
| Jan. 29.....           | .....       | .....     | .....  | 78.6                            | 38.2              | 40.4   | 11.00    | .94         | .77          | .17            | 14.38     | .....        | .....        | 7.70             | 13,640,000         |
| Monthly avg.           | .....       | .....     | .....  | 76.0                            | 32.1              | 43.9   | 10.27    | .85         | .65          | .20            | 13.57     | .....        | .....        | 8.03             | 5,703,333          |
| Feb. 12.....           | .....       | .....     | .....  | 76.6                            | 35.8              | 40.8   | 11.20    | .95         | .82          | .13            | 13.64     | .....        | .....        | 10.00            | 1,355,000          |
| Feb. 26.....           | .....       | .....     | .....  | 68.2                            | 33.0              | 35.2   | 7.20     | .78         | .59          | .19            | 10.36     | .....        | .....        | 9.70             | 2,180,000          |
| Monthly avg.           | .....       | .....     | .....  | 72.4                            | 34.1              | 38.0   | 9.20     | .87         | .71          | .16            | 12.00     | .....        | .....        | 9.85             | 1,767,500          |
| Mar. 12.....           | .....       | .....     | .....  | 81.2                            | 34.4              | 46.8   | 9.20     | .74         | .47          | .27            | 15.18     | .....        | .....        | 8.40             | 2,555,000          |
| April 2.....           | .....       | .....     | .....  | 78.8                            | 36.4              | 42.4   | 9.00     | .80         | .57          | .23            | 13.45     | .....        | .....        | 9.20             | 2,650,000          |
| April 17.....          | .....       | .....     | .....  | 86.8                            | 37.4              | 49.4   | 9.00     | .76         | .50          | .26            | 19.38     | .....        | .....        | 8.10             | 5,100,000          |
| April 30.....          | .....       | .....     | .....  | 82.8                            | 39.4              | 43.4   | 9.00     | .72         | .60          | .12            | 15.54     | .....        | .....        | 8.20             | 2,460,000          |
| Monthly avg.           | .....       | .....     | .....  | 82.8                            | 37.7              | 45.1   | 9.00     | .76         | .56          | .20            | 16.12     | .....        | .....        | 8.50             | 3,403,333          |
| May 14.....            | .....       | .....     | .....  | 75.2                            | 29.0              | 46.2   | 9.00     | .56         | .41          | .15            | 19.28     | .....        | .....        | 6.00             | 950,000            |

## CENTRAL FALLS SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of the City of Central Falls, the sample being taken from the septic tank.—Concluded.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Oxygen Consumed. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| June 4.....            | .....       | .....     | .....  | 73.8                            | 36.8              | 37.0   | 9.00     | .74         | .45          | .29            | 19.45     | .....        | .....        | 8.60             | 15,290,000         |
| June 18.....           | .....       | .....     | .....  | 82.4                            | 27.8              | 54.6   | 8.80     | .60         | .43          | .17            | 20.76     | .....        | .....        | 6.30             | 530,000            |
| Monthly avg.           | .....       | .....     | .....  | 78.1                            | 32.3              | 45.8   | 8.90     | .67         | .44          | .23            | 20.11     | .....        | .....        | 7.45             | 7,910,000          |
| July 2.....            | .....       | .....     | .....  | 127.0                           | 36.6              | 90.4   | 8.60     | .83         | .43          | .40            | 34.38     | .....        | .....        | 6.80             | 2,515,000          |
| July 16.....           | .....       | .....     | .....  | 95.2                            | 32.8              | 62.4   | 9.00     | .91         | .35          | .56            | 16.60     | .....        | .....        | 8.30             | 1,470,000          |
| July 30.....           | .....       | .....     | .....  | 103.6                           | 28.6              | 75.0   | 10.60    | .52         | .42          | .10            | 27.70     | .....        | .....        | 6.80             | 2,570,000          |
| Monthly avg.           | .....       | .....     | .....  | 108.6                           | 32.7              | 75.9   | 9.40     | .75         | .40          | .35            | 26.23     | .....        | .....        | 7.30             | 2,185,000          |
| Aug. 13.....           | .....       | .....     | .....  | 99.6                            | 25.8              | 73.8   | 10.20    | .58         | .34          | .24            | 24.40     | .....        | .....        | 10.60            | 1,190,000          |
| Aug. 27.....           | .....       | .....     | .....  | 117.6                           | 46.6              | 71.0   | 11.00    | .80         | .38          | .42            | 24.42     | .....        | .....        | 8.90             | 1,410,000          |
| Monthly avg.           | .....       | .....     | .....  | 108.6                           | 36.2              | 72.4   | 10.60    | .69         | .36          | .33            | 24.41     | .....        | .....        | 9.75             | 1,300,000          |
| Sept. 9.....           | .....       | .....     | .....  | 92.0                            | 28.4              | 63.6   | 10.20    | .57         | .47          | .10            | 27.44     | .....        | .....        | 5.90             | 650,000            |
| Oct. 22.....           | .....       | .....     | .....  | 102.6                           | 53.8              | 48.8   | 9.80     | 1.05        | .92          | .13            | 16.40     | .....        | .....        | 12.70            | 9,450,000          |
| Yearly avg..           | .....       | .....     | .....  | 88.0                            | 34.7              | 53.3   | 9.56     | .76         | .53          | .23            | 18.85     | .....        | .....        | 8.35             | 3,654,474          |

## CENTRAL FALLS SEWAGE.

*Chemical and Bacteriological Examination of the Sewage Effluent of the City of Central Falls, the sample being taken from beds, 1, 2, and 3.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPORATION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              |                  | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|----------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                     | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |           |        |                            |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Jan. 15.....           | d.          | v. sl.    | .80    | 48.2                       | 12.0              | 36.2   | 5.92     | .3640       | .3440        | .0200          | 11.84     | .11          | .0050        | 3.64             | 1,116,000          |
| Feb. 26.....           | "           | d.        | .80    | 52.6                       | 15.4              | 37.2   | 7.04     | .3160       | .2160        | .1000          | 12.82     | .18          | .0120        | 3.81             | 5,843,500          |
| Mar. 12 .....          | gr.         | sl.       | .86    | 55.9                       | 17.2              | 38.7   | 8.00     | .3760       | .3400        | .0360          | 6.62      | .09          | .0030        | 4.32             | 490,000            |
| April 2.....           | dec.        | v. sl.    | .85    | 47.0                       | 9.4               | 37.6   | 4.48     | .1520       | .1200        | .0320          | 14.94     | 1.20         | .0320        | 1.56             | 337,000            |
| April 30.....          | v. sl.      | "         | .36    | 62.2                       | 14.8              | 47.4   | 3.76     | .1040       | .1040        | 0              | 15.58     | 3.68         | .0200        | 1.04             | 260,030            |
| Monthly avg. ....      |             | "         | .61    | 54.6                       | 12.1              | 42.5   | 4.12     | .1280       | .1120        | .0160          | 15.26     | 2.44         | .0260        | 1.30             | 293,500            |
| May 14.....            | sl.         | v. sl.    | .36    | 72.4                       | 22.7              | 49.7   | 3.20     | .0720       | .0640        | .0080          | 15.84     | 4.38         | .0160        | .82              | 6,000              |
| June 4. ....           | sl.         | sl.       | .26    | 79.8                       | 33.2              | 46.6   | 1.72     | .0540       | .0460        | .0080          | 16.22     | 4.84         | .0040        | 1.94             | 8,500              |
| July 2.....            | v. sl.      | "         | .20    | 86.2                       | 23.9              | 62.3   | 2.24     | .0720       | .0580        | .0140          | 21.28     | 4.13         | .0060        | 1.74             | 4,000              |
| Sept. 9.....           | "           | v. sl.    | .19    | 105.7                      | 21.4              | 84.3   | 1.96     | .0540       | .0540        | 0              | 30.04     | 5.28         | .0040        | .87              | 750                |



## CENTRAL FALLS SEWAGE.

*Chemical and Bacteriological Examination of the Sewage Effluent of the City of Central Falls, the sample being taken from beds 1, 2, and 3.—Concluded.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |              |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              |                  | Bacteria per c. c. |
|------------------------|-------------|--------------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment.    | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |              |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Oct. 8.....            | 0           | sl.          | .16    | 79.6                            | 25.3              | 54.3   | 1.40     | .0260       | .0260        | .0000          | 20.42     | 4.73         | .0150        | .61              | 500                |
| Oct. 22.....           | sl.         | dec.<br>hyd. | .26    | 60.0                            | 15.2              | 44.8   | 1.84     | .0620       | .0360        | .0260          | 17.58     | 2.97         | .0170        | .92              | .....              |
| Monthly avg. ....      | .....       | .....        | .21    | 69.8                            | 20.3              | 49.5   | 1.62     | .0440       | .0310        | .0130          | 19.00     | 3.85         | .0160        | .77              | .....              |
| Nov. 11.....           | dist.       | sl.          | .25    | 69.8                            | 13.5              | 56.3   | 1.18     | .0860       | .0780        | .0080          | 21.78     | 2.69         | .0440        | 1.30             | No growth.         |
| Nov. 25.....           | dec.        | v. sl.       | .50    | .....                           | .....             | .....  | 3.20     | .1640       | .1600        | .0040          | 18.22     | 1.94         | .0400        | 3.12             | 6,600              |
| Monthly avg. ....      | .....       | .....        | .38    | .....                           | .....             | .....  | 2.19     | .1250       | .1190        | .0060          | 20.00     | 2.32         | .0420        | 2.21             | .....              |
| Dec. 16.....           | dec.        | dec.         | br.    | 71.3                            | 21.7              | 49.6   | 6.40     | .4840       | .4000        | .0840          | 18.40     | .23          | .0600        | 5.04             | 1,815,000          |
| Yearly avg.. ....      | .....       | .....        | ....   | 68.5                            | 18.9              | 49.6   | 3.74     | .1704       | .1461        | .0243          | 16.19     | 2.60         | .0199        | 2.20             | 823,996            |

## CENTRAL FALLS SEWAGE.

*Chemical and Bacteriological Examination of the Sewage Effluent of the City of Central Falls, the sample being taken from beds 4 and 5.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |              |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              |                  | Bacteria per c. c. |
|------------------------|-------------|--------------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment.    | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |              |        |                                 |                   |        |          | Total.      | In Solution. | In Suspens on. |           |              |              |                  |                    |
| Jan. 2.....            | d.          | v. sl.       | 1.32   | 59.6                            | 14.3              | 45.3   | 5.20     | .2840       | .2040        | .0800          | 18.76     | .70          | .0500        | 3.30             | 16,500             |
| Jan. 29.....           | "           | sl.          | .88    | 56.5                            | 20.5              | 36.0   | 6.40     | .4360       | .3920        | .0440          | 12.10     | 1.19         | .0200        | 3.84             | 2,788,000          |
| Monthly avg.           | "           | .....        | .....  | 58.1                            | 17.4              | 40.7   | 5.80     | .3600       | .2980        | .0620          | 15.43     | .99          | .0350        | 3.57             | 1,402,250          |
| June 11.....           | sl.         | dist.        | .70    | 85.2                            | 21.5              | 63.7   | 2.76     | .1900       | .1440        | .0460          | 27.78     | 3.42         | .0960        | 1.92             | 69,000             |
| Aug. 13.....           | v. sl.      | hyd.<br>dec. | .39    | 115.0                           | 34.4              | 80.6   | 2.16     | .0920       | .0720        | .0200          | 29.58     | 7.03         | .0140        | 1.06             | 1,565,500          |
| Nov. 25.....           | dec.        | sl.          | br.    | .....                           | .....             | .....  | 5.68     | .3400       | .2960        | .0440          | 13.28     | .84          | .0360        | 3.00             | 76,700             |
| Dec. 16.....           | dec.        | dec.         | br.    | 54.3                            | 12.1              | 42.2   | 6.82     | .2840       | .2680        | .0160          | 16.38     | .48          | .0600        | 3.90             | 227,500            |
| Yearly avg..           | .....       | .....        | .....  | 74.1                            | 20.6              | 53.5   | 4.75     | .2710       | .2293        | .0417          | 19.65     | 2.29         | .0460        | 2.84             | 790,533            |

## CENTRAL FALLS SEWAGE.

*Chemical and Bacteriological Examination of the Sewage Effluent of the City of Central Falls, the sample being taken from beds 6 and 7.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                 | Chlorine. | NITROGEN.    |              |                  | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|-----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                 |           | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension . |           |              |              |                  |                    |
| Jan. 2.....            | d.          | v. sl.    | 1.10   | 70.0                            | 21.2              | 48.8   | 7.60     | .3160       | .2700        | .0460           | 23.64     | .91          | .1500        | 3.90             | 31,700             |
| Jan. 29.....           | "           | sl.       | .90    | 51.9                            | 15.8              | 36.1   | 7.20     | .3720       | .3520        | .0200           | 12.78     | .19          | .0340        | 3.44             | 7,347,000          |
| Monthly avg.           | "           | .....     | 1.00   | 61.0                            | 18.5              | 42.5   | 7.40     | .3440       | .3110        | .0330           | 18.21     | .55          | .0920        | 3.67             | 3,689,350          |
| April 17.....          | d.          | v. sl.    | .65    | 55.3                            | 17.1              | 38.2   | 2.80     | .1360       | .1160        | .0200           | 15.12     | 2.08         | .3000        | 1.96             | 968,500            |
| April 30.....          | "           | sl.       | .36    | 66.1                            | 21.8              | 44.3   | .60      | .1840       | .1600        | .0240           | 8.32      | 4.63         | .2100        | 2.06             | 740,000            |
| Monthly avg.           | "           | .....     | .51    | 60.7                            | 19.5              | 41.2   | 1.70     | .1600       | .1380        | .0220           | 11.72     | 3.36         | .2550        | 2.01             | 854,350            |
| July 16.....           | dist.       | dist.     | .39    | 107.3                           | 44.3              | 63.0   | 2.16     | .0920       | .0880        | .0040           | 18.38     | 7.04         | .0024        | 2.23             | 10,000             |
| July 30.....           | sl.         | dec.      | .37    | 96.6                            | 32.6              | 64.0   | 3.60     | .1340       | .0840        | .0400           | 28.62     | 4.47         | .0180        | 1.26             | 3,561,000          |
| Monthly avg.           | .....       | .....     | .38    | 102.0                           | 38.5              | 63.5   | 2.88     | .1080       | .0860        | .0220           | 23.50     | 5.76         | .0102        | 1.75             | 3,571,000          |
| Nov. 25.....           | dec.        | sl.       | .90    | .....                           | .....             | .....  | 4.80     | .2520       | .2320        | .0200           | 13.96     | 1.24         | .0840        | 2.26             | 58,300             |
| Dec. 16....            | dec.        | v. sl.    | .80    | 55.7                            | 13.1              | 42.6   | 5.20     | .2040       | .1760        | .0280           | 15.81     | 1.92         | .0640        | 2.68             | 182,500            |
| Yearly avg ..          | .....       | .....     | .68    | 71.8                            | 23.7              | 48.1   | 4.25     | .2100       | .1848        | .0252           | 17.08     | 2.81         | .1078        | 2.47             | 2,073,544          |

## CENTRAL FALLS SEWAGE.

*Chemical and Bacteriological Examination of the Water taken from the stream into which the Effluent of the Central Falls filter beds flow, the sample being taken at a point 250 feet below the city line and above the outlet of the effluent pipe.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |              | RESIDUE<br>ON EVAPORATION. |                   |      | AMMONIA. |             |              |                | NITROGEN. |              |              |                  | Bacteria per c. c. |
|------------------------|-------------|-----------|--------------|----------------------------|-------------------|------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color.       | Total.                     | Loss on Ignition. |      | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |           |              |                            |                   |      |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Jan. 15. ....          | v. sl.      | v. sl.    | iron<br>1.25 | 24.5                       | 5.8               | 18.7 | .6400    | .0340       | .0280        | .0060          | 4.76      | .53          | .0400        | .62              | 52,300             |
| Feb. 12. ....          | sl.         | d.        | .63          | 24.6                       | 5.4               | 19.2 | 1.4800   | .0620       | .0500        | .0120          | 5.28      | .39          | .0600        | .91              | 846,300            |
| Feb. 26. ....          | "           | v. sl.    | .90          | 24.6                       | 6.5               | 18.1 | 1.2000   | .0400       | .0360        | .0040          | 4.78      | .38          | .0480        | .72              | 10,000             |
| Monthly avg.           | "           | .....     | .77          | 24.6                       | 6.0               | 18.6 | 1.3400   | .0510       | .0430        | .0080          | 5.03      | .39          | .0540        | .82              | 428,150            |
| Mar. 12. ....          | sl.         | dec.      | .36          | 13.2                       | 3.9               | 9.3  | .0700    | .0400       | .0240        | .0160          | .89       | .10          | .0014        | .55              | 40,000             |
| April 2. ....          | sl.         | sl.       | iron<br>1.05 | 17.1                       | 4.5               | 12.6 | .5000    | .0360       | .0300        | .0060          | 3.82      | .48          | .0200        | .63              | 284,000            |
| April 17. ....         | d.          | "         | iron<br>.90  | 24.1                       | 8.3               | 15.8 | .3000    | .0940       | .0820        | .0120          | 3.08      | .69          | .0100        | 1.11             | 37,400             |
| Monthly avg.           | .....       | "         | iron<br>.98  | 20.6                       | 6.4               | 14.2 | .4000    | .0650       | .0560        | .0090          | 3.45      | .59          | .0150        | .90              | 160,700            |
| May 14. ....           | sl.         | dec.      | .90          | 24.0                       | 8.2               | 15.8 | .2000    | .0340       | .0280        | .0060          | 3.22      | .78          | .0060        | .56              | 126,500            |
| June 4. ....           | sl.         | dec.      | .61          | 25.7                       | 10.5              | 15.2 | .3400    | .0400       | .0360        | .0040          | 3.20      | .78          | .0080        | 1.05             | 3,782,000          |
| June 18. ....          | "           | "         | .51          | 41.1                       | 15.4              | 25.7 | .6000    | .1500       | .1100        | .0400          | 8.15      | 1.17         | .0300        | 1.86             | .....              |
| Monthly avg.           | "           | "         | .58          | 33.4                       | 13.0              | 20.4 | .4700    | .0950       | .0730        | .0220          | 5.69      | .98          | .0190        | 1.46             | .....              |

## CENTRAL FALLS SEWAGE.

*Chemical and Bacteriological Examination of Water taken from the stream into which the Effluent of the Central Falls filter beds flow, the sample being taken from the stream below the city line and above the outlet of the effluent pipe.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |              |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Bacteria per c. c. |                  |
|------------------------|-------------|--------------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|--------------------|------------------|
|                        | Turbidity.  | Sediment.    | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                    | Oxygen Consumed. |
|                        |             |              |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                    |                  |
| July 2.....            | v. sl.      | sl.          | .16    | 30.7                            | 8.2               | 22.5   | .4100    | .0400       | .0380        | .0020          | 5.04      | 1.04         | .0150        | .46                | 2,500            |
| July 16.....           | "           | dist.        | .50    | 33.1                            | 10.8              | 22.3   | .3400    | .0260       | .0220        | .0040          | 5.42      | 1.09         | .0110        | .44                | 10,000           |
| July 30.....           | sl.         | sl.          | .50    | 27.0                            | 9.1               | 17.9   | .1900    | .0100       | .0080        | .0020          | 3.80      | .87          | .0100        | .27                | 11,250           |
| Monthly avg. ....      | .....       | .....        | .39    | 30.3                            | 9.4               | 20.9   | .3133    | .0253       | .0227        | .0026          | 4.75      | 1.00         | .0120        | .39                | 7,917            |
| Aug. 13.....           | trace       | v. sl.       | .30    | 32.1                            | 10.0              | 22.1   | .3000    | .0200       | .0160        | .0040          | 6.22      | 1.10         | .0170        | .20                | 572,510          |
| Sept. 9.....           | sl.         | dist.        | .21    | 31.7                            | 8.8               | 22.9   | .8000    | .0560       | .0420        | .0140          | 2.62      | .80          | .0280        | .90                | 2,232,000        |
| Oct. 8.....            | v. sl.      | sl.          | .26    | 25.4                            | 4.0               | 21.4   | .2000    | .0160       | .0140        | .0020          | 4.04      | .72          | .0140        | .25                | 50,500           |
| Oct. 22.....           | dist.       | iron<br>dec. | .59    | 28.0                            | 8.3               | 19.7   | .4000    | .0180       | .0160        | .0020          | 5.62      | .80          | .0200        | .28                | 18,000           |
| Monthly avg. ....      | .....       | .....        | .43    | 26.7                            | 6.2               | 20.5   | .3000    | .0170       | .0150        | .0020          | 4.83      | .76          | .0170        | .27                | 34,250           |
| Nov. 11.....           | v. sl.      | d.           | .16    | 24.7                            | 7.2               | 17.5   | .2000    | .0100       | .0100        | .0000          | 3.84      | .88          | .0040        | .17                | 1,250            |
| Yearly avg.. ....      | .....       | .....        | .58    | 26.6                            | 8.0               | 18.6   | .4806    | .0427       | .0347        | .0060          | 4.84      | .74          | .0202        | .61                | 475,088          |

## CENTRAL FALLS SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of the City of Central Falls, giving the Average for the Years 1900-1901, Grouped for Comparison of the Quality of the Sewage at Different Points of the System.*

(Parts in 100,000.)

|                        | Color. | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | Chlorine. | NITROGEN.    |              | Oxygen Consumed. | Bacteria per c. c. |                |
|------------------------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|-----------|--------------|--------------|------------------|--------------------|----------------|
|                        |        | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |           | As Nitrates. | As Nitrites. |                  |                    |                |
|                        |        |                                 |                   |        |          | Total.      | In Solution. |           |              |              |                  |                    | In Suspension. |
| Sewage, 1900 .....     |        | 125.8                           | 69.9              | 55.9   | 18.59    | 1.88        | 1.10         | .78       | 19.08        | .....        | 17.30            | 48,215,313         |                |
| Sewage, 1901 .....     |        | 139.2                           | 82.8              | 56.4   | 11.44    | 1.93        | 1.20         | .73       | 17.20        | .....        | 19.66            | 23,284,318         |                |
| Septic, 1900 .....     |        | 92.5                            | 32.5              | 60.0   | 9.18     | .62         | .47          | .15       | 22.36        | .....        | 7.21             | 24,211,938         |                |
| Septic, 1901 .....     |        | 88.0                            | 34.7              | 53.3   | 9.56     | .76         | .53          | .23       | 18.85        | .....        | 8.35             | 3,654,474          |                |
| Beds 1-2-3, 1900 ..... |        | 72.5                            | 15.0              | 57.5   | 3.25     | .1474       | .1040        | .0494     | 19.57        | 2.08         | .0439            | 1.89               | 56,093         |
| Beds 1-2-3, 1901 ..... |        | 68.5                            | 18.9              | 49.6   | 3.74     | .1704       | .1461        | .0243     | 16.19        | 2.60         | .0199            | 2.20               | 823,996        |
| Beds 4-5, 1900 .....   |        | 71.0                            | 15.7              | 55.3   | 2.36     | .2026       | .1343        | .0683     | 20.51        | 2.61         | .0760            | 2.09               | 195,087        |
| Beds 4-5, 1901 .....   |        | 74.1                            | 20.6              | 53.5   | 4.75     | .2710       | .2293        | .0417     | 19.65        | 2.29         | .0460            | 2.84               | 790,533        |
| Beds 6-7, 1900 .....   | .62    | 75.6                            | 22.6              | 53.0   | 3.19     | .1640       | .1310        | .0330     | 18.64        | 3.84         | .0895            | 2.15               | 304,213        |
| Beds 6-7, 1901 .....   | .68    | 71.8                            | 23.7              | 48.1   | 4.25     | .2100       | .1848        | .0252     | 17.08        | 2.81         | .1078            | 2.47               | 2,073,544      |
| Stream, 1900 .....     |        | 26.7                            | 5.9               | 20.8   | .6433    | .0387       | .0258        | .0129     | 5.17         | .37          | .0258            | .68                | 51,760         |
| Stream, 1901 .....     | .58    | 26.6                            | 8.0               | 18.6   | .4806    | .0427       | .0347        | .0080     | 4.34         | .74          | .0202            | .61                | 475,088        |



## WOONSOCKET SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of the City of Woonsocket, the sample being taken from the receiving tank.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Oxygen Consumed. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Jan. 9.....            | .....       | .....     | .....  | 63.8                            | 38.4              | 25.4   | 3.60     | .84         | .49          | .35            | 5.02      | .....        | .....        | 10.60            | 2,610,000          |
| Jan. 22.....           | .....       | .....     | .....  | 79.8                            | 52.2              | 27.6   | 3.00     | 1.06        | .46          | .60            | 8.48      | .....        | .....        | 14.30            | 2,660,000          |
| Monthly avg.           | .....       | .....     | .....  | 71.8                            | 45.3              | 26.5   | 3.30     | .95         | .48          | .47            | 6.75      | .....        | .....        | 12.45            | 2,635,000          |
| Feb. 6.....            | .....       | .....     | .....  | 74.6                            | 46.4              | 28.2   | 5.50     | .96         | .44          | .52            | 7.08      | .....        | .....        | 12.00            | 3,860,000          |
| Mar. 5.....            | .....       | .....     | .....  | 121.6                           | 56.8              | 64.8   | 3.20     | 1.02        | .72          | .30            | 24.56     | .....        | .....        | 14.70            | 3,500,000          |
| Mar. 20.....           | .....       | .....     | .....  | 35.6                            | 12.2              | 23.4   | 1.75     | .35         | .26          | .09            | 5.08      | .....        | .....        | 4.70             | 2,900,000          |
| Monthly avg.           | .....       | .....     | .....  | 78.6                            | 34.5              | 44.1   | 2.48     | .69         | .49          | .20            | 14.81     | .....        | .....        | 9.70             | 3,200,000          |
| April 15.....          | .....       | .....     | .....  | 37.4                            | 28.0              | 9.4    | 1.24     | .3760       | .2080        | .1680          | 4.42      | .....        | .....        | 4.12             | 2,380,000          |
| May 6.....             | .....       | .....     | .....  | 62.2                            | 24.6              | 37.6   | 1.60     | .52         | .28          | .24            | 13.96     | .....        | .....        | 5.70             | 4,600,000          |
| May 21.....            | .....       | .....     | .....  | 81.2                            | 12.8              | 18.4   | .84      | .18         | .08          | .10            | 3.71      | .....        | .....        | 2.40             | .....              |
| Monthly avg.           | .....       | .....     | .....  | 46.7                            | 18.7              | 28.0   | 1.22     | .35         | .18          | .17            | 8.84      | .....        | .....        | 4.05             | .....              |

## WOONSOCKET SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of the City of Woonsocket, the sample being taken from the receiving tank.—Continued.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | NITROGEN.      |           |              | Oxygen Consumed. | Bacteria per c.c. |              |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|------------------|-------------------|--------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |                   | As Nitrites. |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |                  |                   |              |
| June 5 .....           |             |           |        | 35.8                            | 10.6              | 25.2   | 1.72     | .3320       | .1280        | .2040          | 7.18      |              |                  | 2.40              | 3,700,000    |
| June 19.....           |             |           |        | 53.0                            | 17.0              | 36.0   | 1.12     | .3440       | .2230        | .1160          | 11.18     |              |                  | 4.80              | 1,535,000    |
| Monthly avg. ....      |             |           |        | 44.4                            | 13.8              | 30.6   | 1.42     | .3380       | .1780        | .1600          | 9.18      |              |                  | 3.60              | 2,618,000    |
| July 2.....            |             |           |        | 65.6                            | 18.4              | 47.2   | 2.00     | .39         | .20          | .19            | 16.56     |              |                  | 4.40              | 7,700,000    |
| July 15.....           |             |           |        | 44.2                            | 14.6              | 29.6   | 1.68     | .28         | .19          | .09            | 9.62      |              |                  | 2.70              | 17,480,000   |
| Monthly avg. ....      |             |           |        | 54.9                            | 16.5              | 38.4   | 1.84     | .34         | .20          | .14            | 13.09     |              |                  | 3.55              | 12,565,000   |
| Aug. 1.....            |             |           |        | 148.8                           | 78.6              | 70.2   | 3.50     | 2.40        | .53          | 1.87           | 8.84      |              |                  | 15.70             | 14,884,000   |
| Aug. 14.....           |             |           |        | 70.8                            | 39.6              | 31.2   | 2.80     | .77         | .39          | .38            | 9.14      |              |                  | 10.60             | 9,150,000    |
| Aug. 26.....           |             |           |        | 69.0                            | 38.0              | 31.0   | 5.00     | .99         | .47          | .52            | 9.16      |              |                  | 8.50              | 9,045,000    |
| Monthly avg. ....      |             |           |        | 96.2                            | 52.1              | 44.1   | 3.77     | 1.39        | .46          | .93            | 9.05      |              |                  | 11.60             | 10,826,000   |
| Sept. 10.....          |             |           |        | 81.6                            | 47.4              | 34.2   | 4.50     | .74         | .38          | .36            | 9.00      |              |                  | 10.10             | 5,025,000    |

## WOONSOCKET SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of the City of Woonsocket, the sample being taken from the receiving tank.—Concluded.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE ON<br>EVAPORA-<br>TION. |                   |        | AMMONIA. |             |              |                | NITROGEN. |              |              | Oxygen Consumed. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                  |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Oct. 2.....            |             |           |        | 62.8                            | 35.4              | 27.4   | 3.60     | .59         | .34          | .25            | 7.76      |              |              | 6.00             | 19,040,000         |
| Oct. 14.....           |             |           |        | 97.0                            | 50.2              | 46.8   | 4.00     | 1.49        | .52          | .97            | 5.58      |              |              | 11.30            | 14,290,000         |
| Oct. 28.....           |             |           |        | 98.6                            | 54.8              | 43.8   | 4.50     | 1.40        | .64          | .76            | 6.62      |              |              | 12.10            | 10,560,000         |
| Monthly avg.....       |             |           |        | 86.1                            | 46.8              | 39.3   | 4.03     | 1.16        | .50          | .66            | 6.65      |              |              | 9.80             | 14,630,000         |
| Nov. 13.....           |             |           |        | 110.8                           | 72.0              | 38.8   | 3.60     | 1.10        | .52          | .58            | 6.66      |              |              | 13.80            | 650,000            |
| Nov. 26.....           |             |           |        |                                 |                   |        | 4.50     | .81         | .58          | .23            | 5.82      |              |              | 9.60             | 2,010,000          |
| Monthly avg.....       |             |           |        |                                 |                   |        | 4.05     | .96         | .55          | .41            | 6.24      |              |              | 11.70            | 1,330,000          |
| Dec. 11.....           |             |           |        | 98.8                            | 56.8              | 42.0   | 3.40     | 1.09        | .50          | .59            | 4.16      |              |              | 13.60            | 5,899,000          |
| Yearly avg.....        |             |           |        | 73.5                            | 38.3              | 35.2   | 3.05     | .820        | .389         | .431           | 9.05      |              |              | 8.90             | 6,806,095          |

## WOONSOCKET SEWAGE.

*Chemical and Bacteriological Examination of the Sewage Effluent of the City of Woonsocket, the sample being taken from bed 1, at the purification plant of that city.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              |      | Oxygen Consumed. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. |      |                  |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |      |                  |                    |
| Jan. 9.....            | sl.         | v. sl.    | .14    | 60.3                            | 27.8              | 32.5   | .0700    | .0500       | .0480        | .0020          | 6.08      | 5.09         | .1000        | .68  | 248,000          |                    |
| Jan. 22.....           | d.          | "         | .32    | 31.0                            | 8.9               | 22.1   | .8000    | .0940       | .0700        | .0240          | 5.62      | .58          | .0840        | 1.48 | 221,000          |                    |
| Monthly avg. ....      | "           | "         | .23    | 45.7                            | 18.4              | 27.3   | .4350    | .0720       | .0590        | .0130          | 5.85      | 2.84         | .0920        | 1.08 | 234,500          |                    |
| Feb. 6.....            | sl.         | v. sl.    | .26    | 43.9                            | 17.6              | 26.3   | .3800    | .0780       | .0680        | .0100          | 5.06      | 1.96         | .2100        | 1.14 | 178,600          |                    |
| June 19.....           | sl.         | trace     | .15    | 62.4                            | 17.2              | 45.2   | .1000    | .0560       | .0560        | .0000          | 8.12      | 4.81         | .0300        | .56  | 32,250           |                    |
| Nov. 13.....           | sl.         | v. sl.    | .06    | 68.2                            | 30.5              | 37.7   | .0800    | .0440       | .0440        | .0000          | 5.58      | 5.71         | .0080        | .52  | 43,500           |                    |
| Yearly avg..           | sl.         | v. sl.    | .19    | 53.2                            | 20.4              | 32.8   | .2860    | .0644       | .0572        | .0072          | 6.09      | 3.63         | .0864        | .88  | 148,670          |                    |

## WOONSOCKET SEWAGE.

*Chemical and Bacteriological Examination of the Sewage Effluent of the City of Woonsocket, the sample being taken from bed 2, at the purification plant of that city.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>TION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              |                  | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|-------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                        | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |           |        |                               |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| April 15.....          | 0           | trace     | .05    | 23.5                          | 9.0               | 14.5   | .0600    | .0160       | .0160        | .0000          | 3.24      | 1.26         | .0100        | .23              | 64,500             |
| May 21.....            | 0           | sl.       | .09    | 24.3                          | 9.8               | 14.5   | .0116    | .0308       | .0308        | .0000          | 3.20      | .79          | .0006        | .27              | .....              |
| June 5.....            | 0           | 0         | .06    | 36.0                          | 14.1              | 21.9   | .0126    | .0246       | .0246        | .0000          | 6.22      | 1.35         | .0200        | .27              | 252,000            |
| July 15.....           | v. sl.      | v. sl.    | .10    | 61.8                          | 17.6              | 44.2   | .0430    | .0362       | .0362        | .0000          | 10.04     | 3.96         | .0010        | .41              | 55,000             |
| Aug. 1.....            | v. sl.      | 0         | .10    | 55.0                          | 18.5              | 36.5   | .0230    | .0368       | .0368        | .0000          | 11.02     | 2.62         | .0006        | .44              | 195,750            |
| Nov. 26.....           | 0           | 0         | .05    | ....                          | ....              | ....   | .0780    | .0180       | .0180        | .0000          | 4.66      | 3.12         | .0500        | .38              | 31,000             |
| Yearly avg..           | v. sl.      | v. sl.    | .08    | 40.1                          | 13.8              | 26.3   | .0380    | .0271       | .0271        | .0000          | 6.40      | 2.18         | .0137        | .33              | 119,650            |

## WOONSOCKET SEWAGE.

*Chemical and Bacteriological Examination of the sewage Effluent of the City of Woonsocket, the sample being taken from bed 3, at the purification plant of that city.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              | Oxygen Consumed. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total                           | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. |                  |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Mar. 20.....           | 0           | v. sl.    | .10    | 43.3                            | 28.0              | 15.3   | .5500    | .0460       | .0160        | .0000          | 3.78      | 1.87         | .0720        | .58              | 5,921,000          |
| Sept. 10.....          | dec.        | v. sl.    | .31    | 40.8                            | 9.6               | 31.2   | .7000    | .0820       | .0830        | .0000          | 9.86      | .53          | .0030        | 1.27             | 263,750            |
| Oct. 2.....            | v. sl.      | v. sl.    | .18    | 44.2                            | 15.3              | 28.9   | .2000    | .0320       | .0330        | .0000          | 5.36      | 3.34         | .0220        | .56              | 48,500             |
| Oct. 14.....           | sl.         | "         | .25    | 35.8                            | 12.3              | 23.5   | .4500    | .0700       | .0700        | .0000          | 5.84      | 1.37         | .0040        | .85              | 1,250,000          |
| Monthly avg. ....      | "           | "         | .22    | 40.0                            | 13.8              | 26.2   | .3250    | .0510       | .0510        | .0000          | 5.60      | 2.36         | .0130        | .71              | 649,250            |
| Yearly avg..           | sl.         | v. sl.    | .21    | 41.0                            | 16.3              | 24.7   | .4750    | .0575       | .0575        | .0000          | 6.21      | 1.78         | .0253        | .82              | 1,870,813          |



## WOONSOCKET SEWAGE.

*Chemical and Bacteriological Examination of the Sewage Effluent of the City of Woonsocket, the sample being taken from bed 4, at the purification plant of that city.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                | Chlorine. | NITROGEN.    |              |                  | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| Mar. 5.....            | sl.         | v. sl.    | .16    | 29.1                            | 8.2               | 20.9   | 1.0000   | .0700       | .0660        | .0040          | 4.52      | .83          | .1600        | .93              | 1,881,700          |
| May 6.....             | 0           | 0         | .06    | 29.2                            | 10.0              | 19.2   | .0252    | .0234       | .0234        | .0000          | 4.82      | .97          | .0030        | .23              | 6,000              |
| Aug. 14.....           | dist.       | v. sl.    | .26    | 45.0                            | 12.0              | 33.0   | .2100    | .0680       | .0680        | .0000          | 10.02     | 1.40         | .0120        | .90              | *                  |
| Aug. 26 .....          | v. sl.      | "         | .25    | 25.1                            | 4.1               | 21.0   | .4000    | .0620       | .0620        | .0000          | 8.72      | .24          | .0100        | .80              | 300,750            |
| Monthly avg. ....      | "           | "         | .26    | 35.1                            | 8.1               | 27.0   | .2050    | .0650       | .0650        | .0000          | 9.37      | .82          | .0110        | .85              | .....              |
| Dec. 11.....           | sl.         | trace     | .25    | 25.3                            | 6.8               | 18.5   | .3100    | .0600       | .0600        | .0000          | 4.58      | .99          | .0680        | .69              | 198,400            |
| Yearly avg..           | sl.         | v. sl.    | .20    | 30.7                            | 8.2               | 22.5   | .3890    | .0567       | .0559        | .0008          | 6.55      | .89          | .0506        | .71              | 596,713            |

\* Too numerous to count.

## WOONSOCKET SEWAGE.

*Chemical and Bacteriological Examination of the Sewage System of the City of Woonsocket, giving the Averages for the Years 1900-1901, Grouped for Comparison of the Quality of the Sewage at Different Points of the system.*

(Parts in 100,000.)

|                    | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                             |       | AMMONIA.    |              |                | Chlorine. | NITROGEN.    |              | Oxygen Consumed. | Bacteria per c. c. |           |
|--------------------|-------------|-----------|--------|---------------------------------|-----------------------------|-------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|-----------|
|                    | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition,<br>Fixed. | Free. | Albuminoid. |              |                |           | As Nitrates. | As Nitrites. |                  |                    |           |
|                    |             |           |        |                                 |                             |       | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |           |
| Sewage, 1900 ..... | .....       | .....     | .....  | 70.5                            | 37.9                        | 32.6  | 3.10        | .79          | .37            | .42       | 7.32         | .....        | 8.83             | 7,558,194          |           |
| Sewage, 1901.....  | .....       | .....     | .....  | 73.5                            | 38.3                        | 35.2  | 3.05        | .820         | .389           | .431      | 9.05         | .....        | 8.90             | 6,806,095          |           |
| Bed 1, 1900.....   | dec.        | v. sl.    | .24    | 37.3                            | 14.2                        | 23.1  | .3317       | .0613        | .0547          | .0066     | 4.80         | 1.81         | .0895            | .81                | 240,050   |
| Bed 1, 1901.....   | sl.         | "         | .19    | 53.2                            | 20.4                        | 32.8  | .2860       | .0644        | .0572          | .0072     | 6.09         | 3.63         | .0864            | .88                | 143,670   |
| Bed 2, 1900 .....  | v. sl.      | v. sl.    | .12    | 50.0                            | 21.2                        | 28.8  | .0860       | .0233        | .0220          | .0013     | 5.32         | 3.12         | .0473            | .60                | 29,966    |
| Bed 2, 1901.....   | "           | "         | .08    | 40.1                            | 13.8                        | 26.3  | .0380       | .0271        | .0271          | .0000     | 6.40         | 2.18         | .0137            | .33                | 119,650   |
| Bed 3, 1900.....   | sl.         | sl.       | .29    | 30.6                            | 10.7                        | 19.9  | .3200       | .0640        | .0553          | .0087     | 4.67         | 1.27         | .0480            | .89                | 362,500   |
| Bed 3, 1901.....   | "           | v. sl.    | .21    | 41.0                            | 16.3                        | 24.7  | .4750       | .0575        | .0575          | .0000     | 6.21         | 1.78         | .0253            | .82                | 1,870,813 |
| Bed 4, 1900.....   | .....       | .....     | .....  | .....                           | .....                       | ..... | .....       | .....        | .....          | .....     | .....        | .....        | .....            | .....              | .....     |
| Bed 4, 1901.....   | sl.         | v. sl.    | .20    | 30.7                            | 8.2                         | 22.5  | .3890       | .0567        | .0559          | .0008     | 6.55         | .89          | .0506            | .71                | 596,713   |

## PAWTUCKET SEWAGE.

*Yearly Averages of the Chemical and Bacteriological Examinations of the samples obtained from the Sewage Purification Plant at Pawtucket.*

(Parts in 100,000.)

|                             | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              |                |       | NITROGEN. |              |       |             |              |
|-----------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|----------------|-------|-----------|--------------|-------|-------------|--------------|
|                             | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |                |       | Chlorine. | As Nitrates. |       |             | As Nitrites. |
|                             |             |           |        |                                 |                   |        |          | Total.      | In Solution. | In Suspension. |       |           |              |       |             |              |
| Sewage.....                 | .....       | .....     | ....   | 93.1                            | 52.5              | 40.6   | 8.38     | 1.27        | .72          | .55            | 11.76 | .....     | .....        | 13.27 | 19,586,263  |              |
| Septic. ....                | .....       | .....     | ....   | 61.7                            | 30.4              | 31.3   | 6.51     | .81         | .64          | .17            | 8.66  | .....     | .....        | 8.66  | 48,032,760  |              |
| Beds 10-11...               | sl.         | sl.       | ....   | 41.2                            | 12.9              | 28.3   | 3.51     | .1289       | .1063        | .0226          | 7.91  | 1.164     | .0250        | 2.13  | 375,743     |              |
| Beds 12-13...               | "           | "         | ....   | 46.0                            | 19.3              | 26.7   | 2.65     | .1058       | .0978        | .0080          | 7.70  | 2.94      | .0292        | 1.54  | 471,650     |              |
| Bed 14.....                 | gr.         | "         | ....   | .....                           | .....             | .....  | 3.26     | .3630       | .2790        | .0840          | 8.45  | .14       | .0026        | 3.75  | 4,390,250   |              |
| Bed 15.....                 | .....       | .....     | .....  | .....                           | .....             | .....  | 2.72     | .2996       | .2311        | .0685          | 8.09  | 1.001     | .0250        | 3.03  | 9,390,429   |              |
| Bed 16.....                 | d.          | v. sl.    | ....   | .....                           | .....             | .....  | 1.40     | .2086       | .1456        | .0630          | 7.96  | 1.72      | .0661        | 2.21  | 1,396,294   |              |
| Bed 17.....                 | "           | sl.       | ....   | .....                           | .....             | .....  | 1.02     | .1769       | .1325        | .0444          | 7.28  | 2.17      | .0622        | 2.03  | 1,716,038   |              |
| Effluent at<br>river.....   | .....       | .....     | ....   | 40.4                            | 12.9              | 27.5   | 2.35     | .1033       | .0838        | .0195          | 8.02  | 2.10      | .0309        | 1.57  | 267,267     |              |
| River above<br>plant—day... | d.          | d.        | ....   | 37.3                            | 14.7              | 22.6   | .2835    | .3553       | .2165        | .1388          | 3.51  | .028      | .0035        | 3.38  | 2,637,857   |              |
| River above<br>plant—night. | .....       | .....     | .49    | 28.4                            | 11.6              | 16.8   | .1120    | .0860       | .0515        | .0345          | 2.38  | .032      | .0037        | 2.58  | 202,966,666 |              |
| River below<br>plant—day... | .....       | .....     | ....   | 33.9                            | 13.5              | 20.4   | .3414    | .2557       | .1869        | .0688          | 3.21  | .019      | .0039        | 3.15  | 3,302,500   |              |
| River below<br>plant—night. | sl.         | .....     | .49    | 30.6                            | 12.8              | 17.8   | .2030    | .0975       | .0800        | .0175          | 2.38  | .035      | .0044        | 2.77  | 190,910,000 |              |

## CENTRAL FALLS SEWAGE.

*Yearly Averages of the Chemical and Bacteriological Examinations of the samples obtained from the Sewage Purification Plant at Central Falls.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | Chlorine. | NITROGEN.    |              |                | Oxygen Consumed. | Baeteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|-----------|--------------|--------------|----------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |           | As Nitrates. | As Nitrites. |                |                  |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. |           |              |              | In Suspension. |                  |                    |
| Sewage.....            |             |           |        | 139.2                           | 82.8              | 56.4   | 11.41    | 1.93        | 1.20         | .73       | 17.20        |              |                | 19.66            | 23,284,318         |
| Septic. ....           |             |           |        | 88.0                            | 34.7              | 53.3   | 9.56     | .76         | .53          | .23       | 18.85        |              |                | 8.35             | 3,654,474          |
| Beds 1-2-3...          |             |           |        | 68.5                            | 18.9              | 49.6   | 3.74     | .1701       | .1461        | .0234     | 16.19        | 2.60         | .0199          | 2.20             | 823,996            |
| Beds 4-5.....          |             |           |        | 74.1                            | 20.6              | 53.5   | 4.75     | .2710       | .2293        | .0417     | 19.65        | 2.29         | .0460          | 2.84             | 790,533            |
| Beds 6-7.....          |             |           | .68    | 71.8                            | 23.7              | 48.1   | 4.25     | .2100       | .1848        | .0252     | 17.08        | 2.81         | .1078          | 2.47             | 2,073,544          |
| Stream.....            |             |           | .58    | 26.6                            | 8.0               | 18.6   | .4806    | .0427       | .0347        | .0080     | 4.34         | .74          | .0202          | .61              | 475,088            |

## WOONSOCKET SEWAGE.

*Yearly Averages of the Chemical and Bacteriological Examinations of the samples obtained from the Sewage Purification Plant at Woonsocket.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |                   |        | AMMONIA. |             |              | Chlorine. | NITROGEN.    |              |                | Oxygen Consumed. | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-------------------|--------|----------|-------------|--------------|-----------|--------------|--------------|----------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Loss on Ignition. | Fixed. | Free.    | Albuminoid. |              |           | As Nitrates. | As Nitrites. |                |                  |                    |
|                        |             |           |        |                                 |                   |        |          | Total.      | In Solution. |           |              |              | In Suspension. |                  |                    |
| Sewage.....            |             |           |        | 73.5                            | 38.3              | 35.2   | 3.05     | .820        | .380         | .431      | 9.05         |              |                | 8.90             | 6,806,095          |
| Bed 1.....             | sl.         | v. sl.    | .19    | 53.2                            | 20.4              | 32.8   | .2860    | .0644       | .0572        | .0072     | 6.09         | 3.63         | .0864          | .88              | 143,670            |
| Bed 2.....             | v. sl.      | v. sl.    | .08    | 40.1                            | 13.8              | 26.3   | .0380    | .0271       | .0271        | .0000     | 6.40         | 2.18         | .0137          | .38              | 119,650            |
| Bed 3.....             | sl.         | v. sl.    | .21    | 41.0                            | 16.3              | 24.7   | .4750    | .0575       | .0575        | .0000     | 6.21         | 1.78         | .0253          | .82              | 1,870,813          |
| Bed 4.....             | sl.         | v. sl.    | .20    | 30.7                            | 8.2               | 22.5   | .3890    | .0567       | .0559        | .0008     | 6.55         | .89          | .0506          | .71              | 596,713            |

## SEWAGE DISPOSAL AT NARRAGANSETT PIER.

By request of the District of Narragansett a study of the character of the sewages coming from different sources in the town or district was made to determine what treatment, if any, might be given to the sewage before allowing it to flow out into the ocean.

Although the iron drain pipes carrying the sewage are extended well out beyond low water, yet much of the solid and greasy portions of the sewage would rise to the surface of the water and be washed or blown back to the shore.

A series of samples were taken through July and August, at which time the hotels were using these sewer outlets, and while the hotels were open and delivering the maximum amount of sewage.

Samples were taken from the South Pier, the Rodman street, and the Taylor street sewers.

As will be noted in the following tables, the two latter indicate that a large amount of solids is derived from the wastes coming from the hotels, notwithstanding the large amount of dilution from water coming from water closets and laundries.

An analysis of the Rodman street sample, taken on August 6th, shows an enormous amount of fats in the residue, illustrating the amount of material wasted in the running of a summer hotel.



## NARRAGANSETT PIER SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of Narragansett Pier,  
the sample being taken from South Pier.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |           |             | AMMONIA. |             |              |                | NITROGEN. |              |              |                  | Bacteria per c. c. |
|------------------------|-------------|-----------|--------|---------------------------------|-----------|-------------|----------|-------------|--------------|----------------|-----------|--------------|--------------|------------------|--------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Solution. | Suspension. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. | Oxygen Consumed. |                    |
|                        |             |           |        |                                 |           |             |          | Total.      | In Solution. | In Suspension. |           |              |              |                  |                    |
| July 31.....           | .....       | .....     | .....  | 57.8                            | 37.0      | 20.8        | 4.50     | .73         | .38          | .35            | 7.04      | .....        | .....        | 6.20             | .....              |
| Aug. 6.....            | .....       | .....     | .....  | fats<br>344.8                   | 41.2      | 303.6       | 3.50     | .83         | .48          | .35            | 10.60     | .....        | .....        | 6.80             | 30,549,000         |
| Aug. 13.....           | .....       | .....     | .....  | 49.0                            | 34.4      | 14.6        | 1.70     | .43         | .20          | .23            | 5.78      | .....        | .....        | 7.60             | 53,320,000         |
| Aug. 27.....           | .....       | .....     | .....  | 65.2                            | 36.2      | 29.0        | 4.50     | .71         | .41          | .30            | 5.74      | .....        | .....        | 7.80             | 5,590,000          |
| Monthly avg.....       | .....       | .....     | .....  | 153.0                           | 37.3      | 115.7       | 3.23     | .66         | .36          | .30            | 7.37      | .....        | .....        | 7.23             | 26,483,333         |
| Sept. 3.....           | .....       | .....     | .....  | 60.2                            | 38.4      | 21.8        | 3.50     | .70         | .34          | .36            | 5.36      | .....        | .....        | 7.70             | 12,190,000         |
| Yearly avg.....        | .....       | .....     | .....  | 115.4                           | 37.4      | 78.0        | 3.54     | .68         | .36          | .32            | 6.90      | .....        | .....        | 7.12             | 22,910,000         |

## NARRAGANSETT PIER SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of Narragansett Pier, the sample being taken at Rodman Street.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPORATION. |           |             | AMMONIA. |             |              |                | NITROGEN. |              |              | Bacteria per c. c. |                  |
|------------------------|-------------|-----------|--------|----------------------------|-----------|-------------|----------|-------------|--------------|----------------|-----------|--------------|--------------|--------------------|------------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                     | Solution. | Suspension. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. | As Nitrites. |                    | Oxygen Consumed. |
|                        |             |           |        |                            |           |             |          | Total.      | In Solution. | In Suspension. |           |              |              |                    |                  |
| July 31.....           |             |           |        | 465.0                      | 427.0     | 33.0        | 2.80     | .61         | .40          | .21            |           |              |              | 7.80               |                  |
| Aug. 6.....            |             |           |        | Fats.<br>1228.0            | 496.2     | 731.8       | 2.60     | 1.16        | .61          | .55            |           |              |              | 10.50              | 58,900,000       |
| Aug. 13.....           |             |           |        | 283.4                      | 157.6     | 125.8       | 3.80     | .90         | .37          | .53            |           |              |              | 10.50              | 18,930,000       |
| Aug. 21.....           |             |           |        | 320.0                      | 303.6     | 16.4        | 3.50     | .61         | .30          | .31            |           |              |              | 5.80               | 18,600,000       |
| Aug. 27.....           |             |           |        | 439.6                      | 426.6     | 13.0        | 3.50     | .62         | .27          | .35            |           |              |              | 5.40               | 14,980,000       |
| Monthly avg.....       |             |           |        | 567.8                      | 346.0     | 221.8       | 3.35     | .82         | .39          | .43            |           |              |              | 8.05               | 27,852,500       |
| Sept. 3.....           |             |           |        | 360.0                      | 322.4     | 37.6        | 2.10     | .47         | .26          | .21            |           |              |              | 4.90               | 13,640,000       |
| Yearly avg..           |             |           |        | 516.0                      | 355.6     | 160.4       | 3.05     | .73         | .37          | .36            |           |              |              | 7.48               | 25,010,000       |

## NARRAGANSETT PIER SEWAGE.

*Chemical and Bacteriological Examination of the Sewage of Narragansett Pier,  
the sample being taken from Taylor street.*

(Parts in 100,000.)

| DATE OF<br>COLLECTION. | APPEARANCE. |           |        | RESIDUE<br>ON EVAPO-<br>RATION. |           |             | AMMONIA. |             |              | NITROGEN.      |           |              | Oxygen Consumed. | Bacteria per c. c. |              |
|------------------------|-------------|-----------|--------|---------------------------------|-----------|-------------|----------|-------------|--------------|----------------|-----------|--------------|------------------|--------------------|--------------|
|                        | Turbidity.  | Sediment. | Color. | Total.                          | Solution. | Suspension. | Free.    | Albuminoid. |              |                | Chlorine. | As Nitrates. |                  |                    | As Nitrites. |
|                        |             |           |        |                                 |           |             |          | Total.      | In Solution. | In Suspension. |           |              |                  |                    |              |
| July 31.....           |             |           |        | 513.0                           | 487.0     | 26.0        | 1.50     | .66         | .35          | .31            |           |              |                  | 6.10               |              |
| Aug. 6.....            |             |           |        | 308.2                           | 278.2     | 30.0        | 3.20     | .70         | .30          | .40            |           |              |                  | 6.10               | 15,480,000   |
| Aug. 13.....           |             |           |        | 199.8                           | 175.8     | 24.0        | 2.10     | .76         | .31          | .45            |           |              |                  | 6.90               | 20,770,000   |
| Aug. 21.....           |             |           |        | 432.4                           | 370.8     | 61.6        | 1.10     | .96         | .53          | .43            |           |              |                  | 9.50               | 20,460,000   |
| Aug. 27.....           |             |           |        | 470.4                           | 436.0     | 34.4        | 1.80     | .64         | .22          | .42            |           |              |                  | 6.10               | 21,280,000   |
| Monthly avg.           |             |           |        | 352.7                           | 315.2     | 37.5        | 2.05     | .77         | .34          | .43            |           |              |                  | 7.18               | 19,485,000   |
| Sept. 3.....           |             |           |        | 496.0                           | 459.8     | 36.2        | 1.00     | .42         | .21          | .21            |           |              |                  | 4.30               | 11,995,000   |
| Yearly avg..           |             |           |        | 403.3                           | 367.9     | 35.4        | 1.78     | .69         | .32          | .37            |           |              |                  | 6.50               | 17,987,000   |

*Yearly Averages of the Chemical and Bacteriological Examinations of the samples  
obtained from the Sewers at Narragansett Pier.*

|               |  |  |  |       |       |       |      |     |     |     |      |  |  |      |            |
|---------------|--|--|--|-------|-------|-------|------|-----|-----|-----|------|--|--|------|------------|
| South Pier... |  |  |  | 115.4 | 37.4  | 78.0  | 3.54 | .68 | .36 | .32 | 6.90 |  |  | 7.12 | 22,910,000 |
| Rodman St..   |  |  |  | 516.0 | 355.6 | 160.4 | 3.05 | .73 | .37 | .36 |      |  |  | 7.48 | 25,010,000 |
| Taylor St.... |  |  |  | 403.3 | 367.9 | 35.4  | 1.78 | .69 | .32 | .37 |      |  |  | 6.50 | 17,987,000 |

## METEOROLOGY.

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It has been remarked in previous reports of the Board that the influence of the meteorological conditions of the atmosphere, as well as the floating matter suspended therein, is recognized and acknowledged by all pathologists as causes of disease; and the following tables are therefore introduced, as heretofore, for the purpose of comparing the large prevalence of certain diseases, at different monthly periods of the year, with the temperature, the atmospheric pressure, the relative humidity, prevailing direction and force of the wind, and other conditions of the atmosphere, and also the amount of cloud and rain-fall during each month of the year. All of the said diseases and monthly prevalence of the same may be found in the report upon the registration of deaths arranged by MONTHS, in Table VII of the Registration Report.

The first table is compiled from the monthly reports of the city engineer of Providence, and shows the mean, maximum, and minimum temperature of the different months, and the extremes and average daily range of the same; the rain-fall, and prevailing direction of the wind.

The second table will give a more comprehensive monthly summary of observations during 1901, including a large number of atmospheric conditions for each month, and also yearly summaries for each of the twenty preceding years.

It is condensed from the annual summary of monthly observations at Hope reservoir and the city hall, in Providence.

TABLE I.

*Temperature, Range of Temperature, Rain-fall, and Prevailing Direction of the Wind for each Month during the year 1901.*

| MONTHS.        | TEMPERATURE.  |          |          |                |                       |                    |                      | Total Amount of Rain or Melted Snow in inches. | PREVAILING DIRECTION OF THE WIND. |
|----------------|---------------|----------|----------|----------------|-----------------------|--------------------|----------------------|------------------------------------------------|-----------------------------------|
|                | Monthly Mean. | Maximum. | Minimum. | Monthly Range. | Greatest Daily Range. | Least Daily Range. | Average Daily Range. |                                                |                                   |
| January.....   | 28.9          | 49.5     | -2.5     | 52.0           | 32.5                  | 3.5                | 12.4                 | 1.93                                           | N. W.                             |
| February.....  | 24.3          | 45.0     | 10.5     | 34.5           | 21.0                  | 6.5                | 12.4                 | 1.00                                           | N. W.                             |
| March.....     | 37.7          | 57.0     | 11.5     | 45.5           | 24.0                  | 6.0                | 14.2                 | 8.10                                           | N. W., variable.                  |
| April.....     | 46.1          | 73.0     | 34.0     | 39.0           | 35.0                  | 2.0                | 11.8                 | 8.90                                           | N. E.                             |
| May.....       | 56.9          | 84.5     | 42.5     | 42.0           | 35.0                  | 3.5                | 16.5                 | 6.85                                           | Variable.                         |
| June.....      | 70.3          | 97.5     | 50.5     | 47.0           | 29.5                  | 4.5                | 20.1                 | 1.00                                           | S., variable.                     |
| July.....      | 76.1          | 99.0     | 58.0     | 41.0           | 25.5                  | 6.0                | 17.7                 | 2.93                                           | Variable.                         |
| August.....    | 73.2          | 90.5     | 60.5     | 30.0           | 25.5                  | 9.5                | 17.4                 | 2.56                                           | Variable.                         |
| September..... | 65.3          | 89.0     | 42.5     | 46.5           | 25.5                  | 6.5                | 17.6                 | 4.17                                           | Variable.                         |
| October.....   | 53.9          | 74.0     | 35.0     | 39.0           | 24.5                  | 9.5                | 16.9                 | 2.98                                           | N. W.                             |
| November.....  | 38.0          | 65.5     | 12.5     | 53.0           | 20.5                  | 6.5                | 12.6                 | 2.24                                           | N. W.                             |
| December.....  | 33.0          | 59.0     | 7.5      | 51.5           | 31.0                  | 2.5                | 12.8                 | 9.40                                           | N., N. W.                         |
| For year.....  | 50.4          | 73.6     | 30.2     | 43.4           | .....                 | .....              | .....                | 52.06                                          | N. W., variable.                  |

TABLE II.—Summary of Meteorological Observations at Hope Reservoir and City Hall, for the year 1901.

| MONTHS.              | BAROMETER,<br>Reduced to Sea Level<br>and to 32°. |          |          |        | THERMOMETERS.                  |          |          |        | RELATIVE<br>HUMID-<br>ITY. | WIND.                                       |       |            |        |            |       |            |           |                | WEATHER.                          |       |           |                  |             | RAIN AND<br>SNOW.                              |                             |       |       |
|----------------------|---------------------------------------------------|----------|----------|--------|--------------------------------|----------|----------|--------|----------------------------|---------------------------------------------|-------|------------|--------|------------|-------|------------|-----------|----------------|-----------------------------------|-------|-----------|------------------|-------------|------------------------------------------------|-----------------------------|-------|-------|
|                      | Mean, Minimum, Maximum, Range.                    |          |          |        | Mean, Minimum, Maximum, Range. |          |          |        |                            | Prevailing Direction,<br>No. of Days it was |       |            |        |            |       |            |           |                | Atmosphere,<br>No. of Days it was |       |           |                  |             | Amount of Rain<br>or Melted Snow<br>in inches. | Depth of Snow<br>in inches. |       |       |
|                      |                                                   |          |          |        |                                |          |          |        |                            |                                             |       |            |        |            |       |            |           |                |                                   |       |           |                  |             |                                                |                             |       |       |
|                      |                                                   |          |          |        |                                |          |          |        |                            |                                             |       |            |        |            |       |            |           |                |                                   |       |           |                  |             |                                                |                             |       |       |
|                      | Mean.                                             | Maximum. | Minimum. | Range. | Mean.                          | Maximum. | Minimum. | Range. | North.                     | Northeast.                                  | East. | Southeast. | South. | Southwest. | West. | Northwest. | Variable. | Mean Velocity. | Clear.                            | Fair. | Variable. | Rain or<br>Snow. | All others. | Mean Amount of<br>Cloud.                       |                             |       |       |
| January.....         | 29.90                                             | 30.67    | 28.91    | 1.73   | 28.9                           | 49.5     | -2.5     | 52.    | 72                         | 8                                           | 0     | 1          | 0      | 2          | 2     | 3          | 10        | 5              | 8                                 | 7     | 8         | 2                | 14          | 0                                              | 5.0                         | 1.93† | 5.75  |
| February.....        | 29.71                                             | 30.25    | 29.23    | 1.02   | 24.3                           | 45.      | 10.5     | 34.5   | 61                         | 0                                           | 1     | 0          | 0      | 1          | 1     | 5          | 19        | 1              | 11                                | 8     | 13        | 0                | 7           | 0                                              | 2.9                         | 1.00† | 10.00 |
| March.....           | 29.86                                             | 30.41    | 29.20    | 1.21   | 37.7                           | 57.      | 11.5     | 45.5   | 68                         | 2                                           | 5     | 0          | 0      | 1          | 4     | 3          | 8         | 8              | 9                                 | 3     | 10        | 1                | 16          | 1                                              | 6.1                         | 8.10† | *     |
| April.....           | 29.92                                             | 30.46    | 29.21    | 1.25   | 46.1                           | 73.      | 34.      | 39.    | 76                         | 5                                           | 11    | 4          | 2      | 2          | 0     | 0          | 1         | 5              | 10                                | 5     | 7         | 2                | 16          | 0                                              | 7.7                         | 8.90  | ..... |
| May.....             | 29.86                                             | 30.17    | 29.35    | .82    | 56.9                           | 81.5     | 42.5     | 42.    | 74                         | 3                                           | 7     | 1          | 1      | 7          | 0     | 1          | 3         | 8              | 9                                 | 1     | 11        | 1                | 18          | 0                                              | 6.0                         | 6.85  | ..... |
| June.....            | 29.94                                             | 30.22    | 29.60    | .62    | 70.3                           | 97.5     | 50.5     | 47.    | 67                         | 1                                           | 2     | 0          | 1      | 8          | 6     | 0          | 4         | 8              | 7                                 | 2     | 19        | 0                | 8           | 1                                              | 3.8                         | 1.00  | ..... |
| July.....            | 29.92                                             | 30.26    | 29.71    | .55    | 76.1                           | 99.      | 58.      | 41.    | 75                         | 4                                           | 1     | 1          | 2      | 5          | 2     | 3          | 2         | 11             | 6                                 | 0     | 14        | 0                | 17          | 0                                              | 5.1                         | 2.93  | ..... |
| August.....          | 30.03                                             | 30.28    | 29.75    | .53    | 73.2                           | 90.5     | 60.5     | 30.    | 78                         | 2                                           | 3     | 1          | 1      | 9          | 1     | 1          | 3         | 10             | 6                                 | 0     | 19        | 1                | 11          | 0                                              | 5.6                         | 2.56  | ..... |
| September.....       | 30.03                                             | 30.51    | 29.51    | 1.00   | 65.8                           | 89.      | 42.5     | 46.5   | 74                         | 4                                           | 2     | 0          | 1      | 5          | 2     | 1          | 6         | 9              | 6                                 | 5     | 10        | 2                | 13          | 0                                              | 4.6                         | 4.17  | ..... |
| October.....         | 30.08                                             | 30.65    | 29.42    | 1.23   | 53.9                           | 74.      | 35.      | 39.    | 68                         | 3                                           | 0     | 0          | 0      | 5          | 3     | 4          | 10        | 6              | 7                                 | 9     | 13        | 1                | 8           | 0                                              | 3.2                         | 2.98  | ..... |
| November.....        | 29.89                                             | 30.33    | 29.18    | 1.15   | 38.                            | 65.5     | 12.5     | 53.    | 66                         | 5                                           | 2     | 0          | 0      | 0          | 2     | 2          | 17        | 2              | 8                                 | 6     | 12        | 1                | 10          | 1                                              | 4.6                         | 2.24† | *     |
| December.....        | 29.99                                             | 30.47    | 29.35    | 1.12   | 33.                            | 59.      | 7.5      | 51.5   | 76                         | 7                                           | 0     | 0          | 2      | 6          | 4     | 3          | 7         | 2              | 9                                 | 5     | 9         | 2                | 14          | 1                                              | 5.3                         | 9.40† | 5.50  |
| Means for the year.  | 29.93                                             | .....    | .....    | 1.02   | 50.4                           | .....    | .....    | 43.4   | 71                         | .....                                       | ..... | .....      | .....  | .....      | ..... | .....      | .....     | .....          | 8                                 | ..... | .....     | .....            | .....       | 5.0                                            | .....                       | ..... | ..... |
| Totals for the year. | .....                                             | .....    | .....    | .....  | .....                          | .....    | .....    | .....  | 44                         | 34                                          | 8     | 10         | 51     | 27         | 26    | 90         | 75        | .....          | 51                                | 145   | 13        | 152              | 4           | .....                                          | 52.06                       | 21.25 | ..... |
| Extremes.....        | .....                                             | 30.67    | 28.91    | 1.73   | .....                          | 99.      | -2.5     | 101.5  | .....                      | .....                                       | ..... | .....      | .....  | .....      | ..... | .....      | .....     | .....          | .....                             | ..... | .....     | .....            | .....       | .....                                          | .....                       | ..... | ..... |

\* Too small to be measured.

† Snow and rain.



TABLE II.—Continued.—Summary of Meteorological Observations at Hope Reservoir and City Hall.

| BAROMETER                        |          |          |        | THERMOMETERS. |          |          |        | RELATIVE HUMIDITY. | WIND.                                    |            |       |            |        |            |       |            | WEATHER.                       |                |        |           | RAIN AND SNOW.                           |                          |               |             |
|----------------------------------|----------|----------|--------|---------------|----------|----------|--------|--------------------|------------------------------------------|------------|-------|------------|--------|------------|-------|------------|--------------------------------|----------------|--------|-----------|------------------------------------------|--------------------------|---------------|-------------|
| Reduced to Sea Level and to 32°. |          |          |        |               |          |          |        |                    | Prevailing Direction. No. of days it was |            |       |            |        |            |       |            | Atmosphere. No. of days it was |                |        |           | Amount of Rain or Melted Snow in inches. | Depth of Snow in inches. |               |             |
| Mean.                            | Maximum. | Minimum. | Range. | Mean.         | Maximum. | Minimum. | Range. | Mean.              | North.                                   | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Variable.                      | Mean Velocity. | Clear. | Variable. |                                          |                          | Rain or Snow. | All others. |
| YEARLY SUMMARY FOR 1900.         |          |          |        |               |          |          |        |                    |                                          |            |       |            |        |            |       |            |                                |                |        |           |                                          |                          |               |             |
| Means for the year.              | 29.96    | .....    | 1.19   | 51.9          | .....    | 49.4     | 69     | .....              | .....                                    | .....      | ..... | .....      | .....  | .....      | ..... | .....      | 8                              | .....          | .....  | .....     | .....                                    | .....                    | 4.7           | .....       |
| Totals for the year.             | .....    | .....    | .....  | .....         | .....    | .....    | .....  | .....              | 53                                       | 18         | 8     | 5          | 35     | 43         | 45    | 81         | 77                             | .....          | 55     | 140       | 6                                        | 152                      | 12            | .....       |
| Extremes.                        | .....    | 30.71    | 28.74  | 1.97          | .....    | 99.5     | -1.5   | 101.               | .....                                    | .....      | ..... | .....      | .....  | .....      | ..... | .....      | .....                          | .....          | .....  | .....     | .....                                    | .....                    | .....         | .....       |
| YEARLY SUMMARY FOR 1899.         |          |          |        |               |          |          |        |                    |                                          |            |       |            |        |            |       |            |                                |                |        |           |                                          |                          |               |             |
| Means for the year.              | 30.00    | .....    | 1.04   | 50.9          | .....    | 45.1     | 68     | .....              | .....                                    | .....      | ..... | .....      | .....  | .....      | ..... | .....      | 8                              | .....          | .....  | .....     | .....                                    | .....                    | 4             | 6           |
| Totals for the year.             | .....    | .....    | .....  | .....         | .....    | .....    | .....  | .....              | 49                                       | 14         | 6     | 12         | 50     | 42         | 30    | 86         | 76                             | .....          | 69     | 139       | 11                                       | 138                      | 8             | .....       |
| Extremes                         | .....    | 30.88    | 28.83  | 2.00          | .....    | 94.5     | -2.5   | 97.                | .....                                    | .....      | ..... | .....      | .....  | .....      | ..... | .....      | .....                          | .....          | .....  | .....     | .....                                    | .....                    | .....         | .....       |
| YEARLY SUMMARY FOR 1898.         |          |          |        |               |          |          |        |                    |                                          |            |       |            |        |            |       |            |                                |                |        |           |                                          |                          |               |             |
| Means for the year.              | 29.99    | .....    | 1.11   | 51.8          | .....    | 46.1     | 72     | .....              | .....                                    | .....      | ..... | .....      | .....  | .....      | ..... | .....      | 8                              | .....          | .....  | .....     | .....                                    | .....                    | 5.1           | .....       |
| Totals for the year.             | .....    | .....    | .....  | .....         | .....    | .....    | .....  | .....              | 49                                       | 31         | 6     | 17         | 44     | 41         | 26    | 76         | 75                             | .....          | 47     | 136       | 12                                       | 164                      | 6             | .....       |
| Extremes                         | .....    | 30.75    | 28.67  | 2.08          | .....    | 101.5    | 0.     | 101.5              | .....                                    | .....      | ..... | .....      | .....  | .....      | ..... | .....      | .....                          | .....          | .....  | .....     | .....                                    | .....                    | .....         | .....       |





# YEARLY SUMMARY FOR 1890.

[illegible]

# YEARLY SUMMARY FOR 1889.

[illegible]

# YEARLY SUMMARY FOR 1888.

[illegible]

# YEARLY SUMMARY FOR 1887.

[illegible]







*Condensed Table of Meteorological Observations in Rhode Island, 1881-1901.*

| YEARS.        | BAROMETER.<br>Reduced to Sea Level and to 32° F. |                       |                      |                                          | THERMOMETERS. |          |          |             | Mean Humidity. | PRECIPITATION.                        |                                         | PREVAILING<br>DIRECTION<br>OF WIND. |
|---------------|--------------------------------------------------|-----------------------|----------------------|------------------------------------------|---------------|----------|----------|-------------|----------------|---------------------------------------|-----------------------------------------|-------------------------------------|
|               | Mean<br>Barometer.                               | Highest<br>Barometer. | Lowest<br>Barometer. | Mean Range<br>of Barometric<br>Pressure. | Mean.         | Maximum. | Minimum. | Mean Range. |                | Rain and<br>Melted Snow<br>in inches. | Number of<br>Days Snow or<br>Rain fell. |                                     |
|               |                                                  |                       |                      |                                          |               |          |          |             |                |                                       |                                         |                                     |
| 1901. . . . . | 29.93                                            | 30.67                 | 28.94                | 1.02                                     | 50.4          | 99.0     | -2.5     | 43.4        | 71             | 52.06                                 | 152                                     | N. W.                               |
| 1900. . . . . | 29.96                                            | 30.71                 | 28.74                | 1.19                                     | 51.9          | 99.5     | -1.5     | 49.4        | 69             | 47.78                                 | 152                                     | N. W.                               |
| 1899. . . . . | 30.00                                            | 30.33                 | 28.83                | 1.04                                     | 50.9          | 94.5     | -2.5     | 45.1        | 68             | 49.24                                 | 138                                     | N. W.                               |
| 1898. . . . . | 29.99                                            | 30.75                 | 28.67                | 1.11                                     | 51.8          | 101.5    | 0.0      | 46.1        | 72             | 63.50                                 | 164                                     | N. W.                               |
| 1897. . . . . | 29.99                                            | 30.84                 | 28.98                | 1.12                                     | 50.8          | 95.0     | 5.5      | 46.5        | 70             | 47.63                                 | 160                                     | N. W.                               |
| 1896. . . . . | 29.99                                            | 30.85                 | 28.87                | 1.17                                     | 50.4          | 98.0     | -9.0     | 49.0        | 69             | 45.91                                 | 152                                     | N. W.                               |
| 1895. . . . . | 29.98                                            | 30.75                 | 28.61                | 1.17                                     | 51.0          | 98.0     | -5.0     | 45.5        | 70             | 50.81                                 | 155                                     | N. W.                               |
| 1894. . . . . | 30.01                                            | 30.78                 | 28.78                | 1.06                                     | 51.4          | 97.0     | -4.0     | 45.4        | 73             | 42.27                                 | 153                                     | Variable.                           |
| 1893. . . . . | 29.98                                            | 30.81                 | 28.84                | 1.13                                     | 48.6          | 95.5     | 0.0      | 44.8        | 73             | 51.28                                 | 151                                     | N. W.                               |
| 1892. . . . . | 29.98                                            | 30.65                 | 28.99                | 1.66                                     | 50.4          | 96.0     | 2.0      | 43.3        | 71             | 37.39                                 | 156                                     | N. W.                               |
| 1891. . . . . | 30.02                                            | 30.78                 | 28.81                | 1.10                                     | 51.7          | 98.0     | 6.0      | 46.8        | 74             | 53.19                                 | 158                                     | N. W.                               |
| 1890. . . . . | 30.00                                            | 30.88                 | 29.23                | 1.00                                     | 50.4          | 96.0     | 5.5      | 45.4        | 74             | 50.60                                 | 168                                     | N. W.                               |
| 1889. . . . . | 29.99                                            | 30.90                 | 28.93                | 1.15                                     | 51.4          | 92.5     | 0.5      | 42.3        | 76             | 55.91                                 | 166                                     | N. W.                               |
| 1888. . . . . | 30.00                                            | 30.82                 | 28.75                | 1.21                                     | 48.2          | 96.5     | -5.0     | 46.5        | 72             | 63.44                                 | 167                                     | N. W.                               |
| 1887. . . . . | 30.01                                            | 30.97                 | 28.94                | 1.26                                     | 49.4          | 94.0     | -1.5     | 47.0        | 73             | 50.98                                 | 154                                     | N. W.                               |
| 1886. . . . . | 30.01                                            | 30.80                 | 28.69                | 1.13                                     | 48.8          | 95.5     | -5.5     | 46.8        | 74             | 52.02                                 | 160                                     | Variable.                           |
| 1885. . . . . | 29.98                                            | 30.82                 | 28.99                | 1.09                                     | 48.7          | 93.5     | -1.0     | 46.6        | 71             | 39.70                                 | 142                                     | N. W.                               |
| 1884. . . . . | 30.01                                            | 30.79                 | 28.93                | 1.05                                     | 49.5          | 94.0     | -10.0    | 49.2        | 76             | 48.76                                 | 166                                     | Variable.                           |
| 1883. . . . . | 30.05                                            | 30.77                 | 28.88                | 1.08                                     | 48.2          | 93.0     | -9.5     | 45.5        | 72             | 39.54                                 | 156                                     | Variable.                           |
| 1882. . . . . | 30.03                                            | 30.77                 | 29.22                | 1.03                                     | 49.2          | 95.0     | -11.0    | 46.0        | 72             | 44.96                                 | 136                                     | N. W.                               |
| 1881. . . . . | 30.00                                            | 30.80                 | 28.97                | 1.08                                     | 49.6          | 96.0     | -4.0     | 44.5        | 73             | 44.79                                 | 130                                     | N. W.                               |

*Meteorological Observations for the Whole State for 1901.*

| MONTHS. | TEMPERATURE<br>(IN DEGREES FAHRENHEIT). |                               |          |       |         |       | PRECIPITATION<br>(IN INCHES). |        |                               |                       |                                  |                    | SKY.               |                               |                     | WIND. |
|---------|-----------------------------------------|-------------------------------|----------|-------|---------|-------|-------------------------------|--------|-------------------------------|-----------------------|----------------------------------|--------------------|--------------------|-------------------------------|---------------------|-------|
|         | Mean.                                   | Departure from the<br>normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.         | Total. | Departure from the<br>normal. | Greatest in 24 hours. | Total snow-fall (un-<br>melted). | Number rainy days. | Number clear days. | Number partly<br>cloudy days. | Number cloudy days. |       |
|         |                                         |                               |          |       |         |       |                               |        |                               |                       |                                  |                    |                    |                               |                     |       |

|                |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BLOCK ISLAND.  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| January.....   | 30.8  | -0.4  | 50    | 16    | 2     | 20    | 33    | 1.95  | -2.30 | 1.01  | 4     | 11    | 9     | 12    | 10    | N. W. |
| February.....  | 25.1  | -6.6  | 39    | 19    | 10    | *14   | 21    | 0.83  | -3.61 | 0.48  | 5     | 4     | 16    | 10    | 2     | N. W. |
| March.....     | 35.6  | +1.0  | 52    | 25    | 13    | 7     | 19    | 5.60  | +1.58 | 2.61  | T.    | 10    | 9     | 9     | 13    | W.    |
| April.....     | 42.4  | -1.6  | 59    | 29    | 33    | 1     | 22    | 6.53  | +3.09 | 1.53  | ..... | 16    | 5     | 5     | 20    | N. E. |
| May.....       | 51.2  | -1.3  | 72    | 24    | 36    | 2     | 22    | 5.93  | +2.03 | 2.37  | ..... | 16    | 10    | 9     | 12    | S. W. |
| June.....      | 61.8  | -0.2  | 86    | 30    | 47    | 17    | 22    | 2.56  | -0.58 | 1.59  | ..... | 6     | 19    | 8     | 3     | S. W. |
| July.....      | 69.3  | +1.0  | 86    | 3     | 55    | 27    | 19    | 1.24  | -1.84 | 0.78  | ..... | 11    | 4     | 15    | 12    | S. W. |
| August.....    | 68.9  | +0.7  | 82    | 11    | 55    | 30    | 18    | 3.82  | +0.41 | 1.74  | ..... | 10    | 13    | 10    | 8     | S. W. |
| September..... | 64.6  | +0.9  | 81    | 6     | 44    | 26    | 20    | 4.07  | +0.67 | 1.04  | ..... | 11    | 15    | 9     | 6     | S. W. |
| October.....   | 54.5  | +0.7  | 69    | 10    | 36    | 26    | 21    | 3.44  | -0.99 | 2.69  | ..... | 6     | 17    | 10    | 4     | S. W. |
| November.....  | 39.4  | -5.8  | 64    | 2     | 14    | 28    | 19    | 2.62  | -1.58 | 2.08  | T.    | 6     | 7     | 11    | 12    | N. W. |
| December.....  | 34.8  | -1.9  | 58    | 14    | 9     | 19    | 29    | 8.67  | +5.59 | 1.85  | 4     | 13    | 10    | 7     | 14    | N. W. |
| Means.....     | 48.2  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Totals.....    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 47.26 | ..... | ..... | 13    | 120   | 134   | 115   | 116   | ..... |
| Extremes.      | ..... | ..... | 86    | ..... | 2     | ..... | 33    | ..... | ..... | 2.69  | ..... | ..... | ..... | ..... | ..... | S. W. |

\* On other dates also.

T indicates trace.

*Meteorological Observations for the Whole State for 1901.*

(CONTINUED.)

| MONTHS.        | TEMPERATURE<br>(IN DEGREES FAHRENHEIT). |                               |          |       |         |       |                          | PRECIPITATION<br>(IN INCHES). |                               |                          |                                |                       |                       | SKY.                          |                        |       | WIND. |
|----------------|-----------------------------------------|-------------------------------|----------|-------|---------|-------|--------------------------|-------------------------------|-------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|-------------------------------|------------------------|-------|-------|
|                | Mean.                                   | Departure from<br>the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily<br>range. | Total.                        | Departure from<br>the normal. | Greatest in 24<br>hours. | Total snow-fall<br>(unmelted). | Number rainy<br>days. | Number clear<br>days. | Number partly<br>cloudy days. | Number cloudy<br>days. |       |       |
|                |                                         |                               |          |       |         |       |                          |                               |                               |                          |                                |                       |                       |                               |                        |       |       |
| BRISTOL.       |                                         |                               |          |       |         |       |                          |                               |                               |                          |                                |                       |                       |                               |                        |       |       |
| January.....   | 29.4                                    | +0.8                          | 47       | 6     | 1       | 20    | 31                       | 1.21                          | -3.18                         | 0.05                     | 4                              | 8                     | 14                    | 10                            | 7                      | N. W. |       |
| February.....  | 24.8                                    | -4.7                          | 39       | *18   | 12      | 14    | 19                       | 0.55                          | -4.09                         | 0.30                     | 6                              | 3                     | 19                    | 7                             | 2                      | N. W. |       |
| March.....     | 36.4                                    | +0.6                          | 54       | 25    | 13      | 7     | 17                       | 5.52                          | +1.68                         | 2.61                     | T.                             | 12                    | 11                    | 7                             | 13                     | N. W. |       |
| April.....     | 44.8                                    | -0.4                          | 63       | *28   | 34      | 1     | 28                       | 5.88                          | +1.69                         | 1.43                     | .....                          | 18                    | 5                     | 5                             | 20                     | N. E. |       |
| May.....       | 54.2                                    | -1.2                          | 75       | 23    | 40      | *2    | 21                       | 7.14                          | +3.37                         | .....                    | .....                          | 15                    | 10                    | 8                             | 13                     | N. E. |       |
| June.....      | 64.4                                    | -0.4                          | 86       | 30    | 49      | 16    | 21                       | 1.21                          | -0.68                         | 1.05                     | .....                          | 6                     | 20                    | 6                             | 4                      | S.    |       |
| July.....      | 72.0                                    | +2.3                          | 87       | 3     | 57      | 27    | 19                       | 3.89                          | +0.61                         | 1.87                     | .....                          | 9                     | 18                    | 8                             | 4                      | S. W. |       |
| August.....    | 71.7                                    | +1.8                          | 82       | *11   | 59      | *29   | 20                       | 2.56                          | -1.08                         | 0.93                     | .....                          | 6                     | .....                 | .....                         | .....                  | ..... |       |
| September..... | 65.3                                    | +1.8                          | 82       | 6     | 41      | 26    | 21                       | 2.09                          | +0.62                         | 0.80                     | .....                          | 10                    | 19                    | 6                             | 5                      | S. W. |       |
| October.....   | 54.4                                    | +1.7                          | 70       | 11    | 35      | *29   | 21                       | 2.64                          | -2.28                         | 1.50                     | .....                          | 6                     | 22                    | 7                             | 2                      | ..... |       |

|               |      |      |    |    |    |     |    |       |       |      |    |     |     |    |    |       |
|---------------|------|------|----|----|----|-----|----|-------|-------|------|----|-----|-----|----|----|-------|
| November..... | 38.4 | -4.8 | 60 | 1  | 15 | *28 | 19 | 1.77  | -2.94 | 1.00 | T. | 7   | 17  | 9  | 4  | N. W. |
| December..... | 32.6 | -1.3 | 58 | 14 | 8  | 22  | 28 | 9.16  | +5.84 | 1.69 | 5  | 13  | 14  | 10 | 7  | N.    |
| Means.....    | 49.0 |      |    |    |    |     |    |       |       |      |    |     |     |    |    |       |
| Totals.....   |      |      |    |    |    |     |    | 44.22 |       |      | 15 | 113 | 169 | 83 | 81 |       |
| Extremes..... |      |      | 87 |    | 1  |     | 31 |       |       | 2.61 |    |     |     |    |    | N. W. |

## KINGSTON.

|                |      |      |    |     |    |     |    |       |       |      |    |     |     |     |     |          |
|----------------|------|------|----|-----|----|-----|----|-------|-------|------|----|-----|-----|-----|-----|----------|
| January.....   | 26.4 | -0.7 | 50 | 9   | -9 | 20  | 37 | 2.44  | -3.11 | 0.48 | 6  | 11  | 10  | 11  | 10  | W.       |
| February.....  | 21.8 | -5.2 | 42 | *16 | 5  | 14  | 29 | 1.13  | -3.91 | 0.53 | 8  | 3   | 15  | 12  | 1   | W.       |
| March.....     | 34.6 | +0.4 | 53 | *25 | 4  | 7   | 27 | 8.58  | +3.66 | 3.67 | T. | 12  | 8   | 5   | 18  | W.       |
| April.....     | 43.9 | -0.8 | 74 | 29  | 30 | 1   | 37 | 8.78  | +3.95 | 1.90 |    | 15  | 5   | 2   | 23  | N. E.    |
| May.....       | 53.3 | -1.2 | 81 | 23  | 35 | *4  | 38 | 6.98  | +2.54 | 1.62 |    | 13  | 8   | 6   | 17  | N. E.    |
| June.....      | 65.0 | +0.2 | 98 | 30  | 44 | *16 | 31 | 1.32  | -1.00 | 0.61 |    | 6   | 16  | 6   | 8   | S. W.    |
| July.....      | 72.0 | +3.2 | 93 | 1   | 51 | 27  | 28 | 4.05  | +1.05 | 1.46 |    | 13  | 4   | 12  | 15  | S. W.    |
| August.....    | 69.4 | +0.8 | 87 | *11 | 54 | *2  | 26 | 1.98  | -1.36 | 0.76 |    | 7   | 9   | 11  | 11  | E.       |
| September..... | 63.6 | +1.1 | 88 | 6   | 37 | 26  | 31 | 4.05  | +1.31 | 1.03 |    | 9   | 14  | 8   | 8   | S.       |
| October.....   | 52.0 | +1.8 | 74 | 10  | 27 | 26  | 34 | 2.95  | -2.61 | 2.34 |    | 5   | 20  | 8   | 3   | N. W.    |
| November.....  | 35.5 | -4.4 | 66 | 1   | 4  | 29  | 27 | 3.04  | -1.50 | 2.20 | 2  | 7   | 14  | 9   | 7   | N. W.    |
| December.....  | 30.6 | -1.7 | 58 | *14 | 0  | 22  | 34 | 10.30 | +6.39 | 2.42 | 6  | 11  | 8   | 14  | 9   | S. W.    |
| Means.....     | 47.3 |      |    |     |    |     |    |       |       |      |    |     |     |     |     |          |
| Totals.....    |      |      |    |     |    |     |    | 55.60 |       |      | 22 | 112 | 131 | 104 | 130 |          |
| Extremes.....  |      |      | 93 |     | -9 |     | 38 |       |       | 3.67 |    |     |     |     |     | W. S. W. |

\* On other dates also. T indicates trace.

*Meteorological Observations for the Whole State for 1901.*

(CONTINUED.)

| MONTHS.            | TEMPERATURE<br>(IN DEGREES FAHRENHEIT). |                               |          |       |         |       | PRECIPITATION<br>(IN INCHES). |        |                               |                          |                                | SKY.                  |                       |                               | WIND.                  |                            |
|--------------------|-----------------------------------------|-------------------------------|----------|-------|---------|-------|-------------------------------|--------|-------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|-------------------------------|------------------------|----------------------------|
|                    | Mean.                                   | Departure from<br>the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily<br>range.      | Total. | Departure from<br>the normal. | Greatest in 24<br>hours. | Total snow-fall<br>(unmelted). | Number rainy<br>days. | Number clear<br>days. | Number partly<br>cloudy days. | Number cloudy<br>days. | Prevailing direc-<br>tion. |
|                    |                                         |                               |          |       |         |       |                               |        |                               |                          |                                |                       |                       |                               |                        |                            |
| NARRAGANSETT PIER. |                                         |                               |          |       |         |       |                               |        |                               |                          |                                |                       |                       |                               |                        |                            |
| January.....       | 27.7                                    | -1.2                          | 51       | 9     | -4      | 20    | 36                            | 2.29   | -2.72                         | 0.45                     | 8                              | 11                    | 15                    | 7                             | 9                      | N. W.                      |
| February .....     | 23.2                                    | -5.8                          | 41       | *18   | 8       | 14    | 24                            | 1.17   | -3.40                         | 0.60                     | 8                              | 3                     | 25                    | 1                             | 2                      | W.                         |
| March....          | 34.8                                    | +0.4                          | 54       | 27    | 8       | 7     | 26                            | 7.03   | +2.45                         | 2.50                     | T.                             | 12                    | 16                    | 2                             | 13                     | N. W.                      |
| April.....         | 43.8                                    | -0.9                          | 65       | 29    | 32      | *1    | 29                            | 6.73   | +3.20                         | 1.70                     | .....                          | 15                    | 7                     | 2                             | 21                     | N. E.                      |
| May .....          | 52.8                                    | -2.2                          | 77       | 24    | 35      | 27    | 26                            | 6.55   | +2.30                         | 1.82                     | .....                          | 12                    | 16                    | 3                             | 12                     | S.                         |
| June .....         | 64.9                                    | -0.4                          | 89       | 30    | 45      | *17   | 29                            | 1.74   | -0.57                         | 0.95                     | .....                          | 6                     | 21                    | 4                             | 5                      | S. W.                      |
| July.....          | 71.8                                    | +1.9                          | 90       | 1     | 53      | 27    | 22                            | 2.15   | -1.17                         | 0.76                     | .....                          | 10                    | 21                    | 3                             | 7                      | S. W.                      |
| August.....        | 69.6                                    | +0.7                          | 84       | 11    | 54      | 29    | 20                            | 2.84   | -1.21                         | 1.00                     | .....                          | 8                     | 15                    | 9                             | 7                      | S. W.                      |
| September.....     | 63.9                                    | +1.2                          | 82       | 6     | 41      | 20    | 27                            | 3.17   | -0.09                         | 0.70                     | .....                          | 11                    | 20                    | 3                             | 7                      | S.                         |
| October.....       | 51.9                                    | -0.3                          | 70       | 2     | 31      | 26    | 28                            | 2.64   | -1.90                         | 2.10                     | .....                          | 6                     | 19                    | 7                             | 5                      | S. W.                      |

|               |      |      |    |     |    |    |    |       |       |      |    |     |     |    |     |       |
|---------------|------|------|----|-----|----|----|----|-------|-------|------|----|-----|-----|----|-----|-------|
| November..... | 37.2 | -5.9 | 64 | 1   | 9  | 29 | 24 | 2.79  | -1.57 | 1.04 | 2  | 7   | 11  | 10 | 9   | N. W. |
| December..... | 31.5 | -2.0 | 56 | *14 | 6  | 22 | 30 | 9.33  | +5.81 | 1.78 | 6  | 12  | 11  | 5  | 15  | S. W. |
| Means.....    | 47.8 |      |    |     |    |    |    |       |       |      |    |     |     |    |     |       |
| Totals.....   |      |      |    |     |    |    |    | 48.43 |       |      | 24 | 113 | 197 | 56 | 112 |       |
| Extremes..... |      |      | 90 |     | -4 |    | 36 |       |       | 2.50 |    |     |     |    |     | S. W. |

## PROVIDENCE.

|                |        |      |    |    |    |     |    |       |       |      |    |     |    |    |    |       |
|----------------|--------|------|----|----|----|-----|----|-------|-------|------|----|-----|----|----|----|-------|
| January.....   | 28.6   | +1.6 | 50 | 9  | -3 | 20  | 33 | 1.93  | -2.10 | 0.86 | 6  | 7   | 7  | 8  | 16 | N. W. |
| February.....  | 24.4   | -4.7 | 45 | 26 | 10 | 14  | 20 | 1.00  | -2.84 | 0.80 | 10 | 3   | 8  | 13 | 7  | N. W. |
| March.....     | 37.8   | +2.7 | 57 | 25 | 11 | 7   | 25 | 8.10  | +4.07 | 2.50 | T. | 13  | 3  | 10 | 18 | N. W. |
| April.....     | 70.4   | -0.6 | 73 | 28 | 34 | 1   | 35 | 8.90  | +5.26 |      |    | 16  |    |    |    |       |
| May.....       | 57.9   | -0.3 | 85 | 24 | 42 | *2  | 36 | 6.85  | +3.10 |      |    | 14  |    |    |    |       |
| June.....      | 71.7   | +3.5 | 98 | 30 | 50 | 16  | 30 | 1.00  | -2.20 | 0.65 |    | 4   |    |    |    |       |
| July.....      | 77.9   | +4.9 | 99 | 2  | 58 | 25  | 26 | 2.93  | -0.30 | 1.36 |    | 11  |    |    |    |       |
| August.....    | 74.6   | +3.8 | 91 | 11 | 60 | *28 | 26 | 2.56  | -1.60 | 1.26 |    | 6   |    |    |    |       |
| September..... | 66.5   | +2.7 | 89 | 5  | 42 | 26  | 26 | 4.17  | +0.93 | 2.30 |    | 10  |    |    |    | N. W. |
| October.....   | 54.5   | +2.1 | 74 | 11 | 35 | *29 | 25 | 2.98  | -0.76 | 2.00 |    | 7   |    |    |    |       |
| November.....  | 38.1   | -4.5 | 66 | 1  | 12 | 29  | 21 | 2.43  | -1.92 |      | T. | 4   | 6  | 12 | 12 | N. W. |
| December.....  | 32.6   | -0.6 | 59 | 14 | 7  | 22  | 35 | 9.40  | +5.57 | 1.79 | 6  | 10  |    |    |    |       |
| Means.....     | * 52.9 |      |    |    |    |     |    |       |       |      |    |     |    |    |    |       |
| Totals.....    |        |      |    |    |    |     |    | 52.25 |       |      | 22 | 105 | 24 | 43 | 53 | N. W. |
| Extremes.....  |        |      | 99 |    | -3 |     | 36 |       |       | 2.50 |    |     |    |    |    |       |

\* On other dates also.

T indicates trace.



*Meteorological Observations for the Whole State for 1901.*

(CONCLUDED.)

| MONTHS.           | TEMPERATURE<br>(IN DEGREES FAHRENHEIT). |                               |          |       |         |       | PRECIPITATION<br>(IN INCHES). |        |                               |                          |                                |                       | SKY.                  |                               |                        | WIND. |
|-------------------|-----------------------------------------|-------------------------------|----------|-------|---------|-------|-------------------------------|--------|-------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|-------------------------------|------------------------|-------|
|                   | Mean.                                   | Departure from<br>the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily<br>range.      | Total. | Departure from<br>the normal. | Greatest in 24<br>hours. | Total snow-fall<br>(unmelted). | Number rainy<br>days. | Number clear<br>days. | Number partly<br>cloudy days. | Number cloudy<br>days. |       |
|                   |                                         |                               |          |       |         |       |                               |        |                               |                          |                                |                       |                       |                               |                        |       |
| SOUTH PORTSMOUTH. |                                         |                               |          |       |         |       |                               |        |                               |                          |                                |                       |                       |                               |                        |       |
| January .....     | 27.9                                    | .....                         | 47       | 17    | -3      | 20    | 27                            | 1.76   | .....                         | 1.03                     | 2                              | 3                     | 17                    | 7                             | 7                      | N. W. |
| February .....    | 23.4                                    | .....                         | 40       | 16    | 8       | 14    | 22                            | 0.55   | .....                         | 0.55                     | T.                             | 1                     | 24                    | 2                             | 2                      | N. W. |
| March.....        | 36.0                                    | .....                         | 54       | 25    | 12      | 6     | 22                            | 7.40   | .....                         | 2.58                     | T.                             | 9                     | 16                    | 11                            | 4                      | S. W. |
| April.....        | 43.8                                    | .....                         | 69       | 29    | 32      | *1    | 30                            | 7.57   | .....                         | 1.55                     | .....                          | 14                    | 6                     | 4                             | 19                     | N. E. |
| May.....          | 53.7                                    | .....                         | 78       | 24    | 36      | 2     | 30                            | 7.15   | .....                         | 1.56                     | .....                          | 11                    | 13                    | 8                             | 10                     | N. E. |
| June.....         | 67.4                                    | .....                         | 90       | 30    | 40      | 9     | 27                            | 1.98   | .....                         | 1.47                     | .....                          | 3                     | 24                    | 4                             | 2                      | S. W. |
| July.....         | 72.5                                    | .....                         | 89       | *1    | 53      | 25    | 27                            | 2.50   | .....                         | 0.72                     | .....                          | 9                     | 24                    | 6                             | 1                      | S. W. |
| August.....       | 70.2                                    | .....                         | 84       | 11    | 57      | *29   | 21                            | 2.32   | .....                         | 0.89                     | .....                          | 7                     | 22                    | 3                             | 6                      | S. W. |
| September.....    | 64.6                                    | .....                         | 85       | 6     | 40      | 26    | 27                            | 3.08   | .....                         | 0.74                     | .....                          | 8                     | 18                    | 6                             | 6                      | S. W. |
| October.....      | 53.0                                    | .....                         | 73       | 11    | 32      | 26    | 25                            | 3.43   | .....                         | 2.92                     | .....                          | 3                     | 23                    | 8                             | 0                      | W.    |

|               |      |    |    |    |     |    |       |      |    |    |    |     |    |       |
|---------------|------|----|----|----|-----|----|-------|------|----|----|----|-----|----|-------|
| November..... | 37.3 | 63 | 1  | 12 | *28 | 21 | 2.15  | 1.78 | T. | 2  | 13 | 9   | 8  | N. W. |
| December..... | 30.6 | 55 | 15 | 6  | 22  | 28 | 8.63  | 1.89 | T. | 11 | 9  | 5   | 16 | S. W. |
| Means.....    | 48.4 |    |    |    |     |    |       |      |    |    |    |     |    |       |
| Totals.....   |      |    |    |    |     |    | 48.52 |      |    | 2  | 81 | 209 | 74 | 81    |
| Extremes..... |      | 90 |    | -3 |     | 30 |       | 2.92 |    |    |    |     |    | S. W. |

## AVERAGES, ETC., FOR 1901.

|                      |      |    |  |    |  |    |       |      |    |     |     |     |     |           |
|----------------------|------|----|--|----|--|----|-------|------|----|-----|-----|-----|-----|-----------|
| Block Island.....    | 48.2 | 86 |  | 2  |  | 33 | 47.26 | 2.69 | 13 | 120 | 134 | 115 | 116 | S. W.     |
| Bristol.....         | 49.0 | 87 |  | 1  |  | 31 | 44.22 | 2.61 | 15 | 113 | 169 | 83  | 81  | N. W.     |
| Klingston.....       | 47.3 | 93 |  | -9 |  | 38 | 55.60 | 3.67 | 22 | 112 | 131 | 104 | 130 | W., S. W. |
| Narragansett Pier... | 47.8 | 90 |  | -4 |  | 36 | 48.43 | 2.50 | 24 | 113 | 197 | 56  | 112 | S. W.     |
| Providence.....      | 52.9 | 99 |  | -3 |  | 36 | 52.25 | 2.50 | 22 | 105 | 24  | 43  | 53  | N. W.     |
| South Portsmouth.... | 48.4 | 90 |  | -3 |  | 30 | 48.52 | 2.92 | 2  | 81  | 209 | 71  | 81  | S. W.     |

All records are used in determining State or district means, but State and district departures are determined by comparison of current data of only such stations as have normals.

\* On other dates also.

T Indicates trace.

## BIRTHS, DEATHS, AND MARRIAGES, 1901.

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The value of reliable reports in their various bearings, relating to the records of births, marriages, and deaths, and the items of fact connected therewith, showing the vital movements of the population from year to year, has been so frequently presented in the previous reports of this Board as to need no repetition at this time. It is gratifying, however, to be able to state that, with no exception, persons eminent in social and political science everywhere recognize the indispensable information such reports furnish, and that in every civilized country they occupy places of importance in the government reports scarcely second to any other department.

The forty-eighth report on the registry of vital movements in Rhode Island was completed and issued by the end of the year, and will be found appended to this report.

The work of collecting the data for the forty-ninth report, the enumerating, classifying, arranging, and collecting in tables for the purpose of presenting the various facts in such detail as to facilitate examination and study, has been in progress during the time of making up this report, and affords some facts which may be presented at this time.

Below will be found some of the general results of the registry of births, marriages, and deaths during 1901.

| BIRTHS.                     |       |                  |       |
|-----------------------------|-------|------------------|-------|
| SEX.                        |       | PARENT NATIVITY. |       |
| Males.....                  | 5,944 | Native* .....    | 4,489 |
| Females.....                | 5,348 | Foreign.....     | 6,803 |
| Whole number of births..... |       | 11,292.          |       |

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\* Including all whose fathers were born in the United States, whether the fathers were of foreign parentage or native.

## MARRIAGES.

|                                     |        |
|-------------------------------------|--------|
| Native born Groom and Bride.....    | 1,769  |
| Foreign born Groom and Bride.....   | 1,175  |
| Native Groom and Foreign Bride..... | 457    |
| Foreign Groom and Native Bride..... | 445    |
| Whole number of marriages.....      | 3,846. |
| Native Grooms.....                  | 2,226  |
| Foreign Grooms.....                 | 1,620  |

## DEATHS.

| SEX.                        |       | NATIVITY.    |       |
|-----------------------------|-------|--------------|-------|
| Males.....                  | 4,066 | Native.....  | 5,654 |
| Females.....                | 3,900 | Foreign..... | 2,312 |
| Whole number of deaths..... |       | 7,966.       |       |

There was one birth to every 38.8 of the population, or.....25.8 births in every 1,000  
 One person married in every 56.9 of the population, or..17.6 persons married in every 1,000  
 And one death in every 55.0 of the population, or.....18.2 deaths in every 1,000  
 Population for 1901...<sup>\*</sup>..... 437,888

*The following Summary will show the rates, per 1,000 of the population, of births, marriages, and deaths for fifteen years.*

|                                              | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | 1900 | 1901 |
|----------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth-rates. ....                            | 24.2 | 24.2 | 24.1 | 24.7 | 26.5 | 25.2 | 26.5 | 26.6 | 25.7 | 27.3 | 26.8 | 25.9 | 25.6 | 25.9 | 25.8 |
| Death-rates.....                             | 19.9 | 20.4 | 19.0 | 20.1 | 18.6 | 20.1 | 19.6 | 19.5 | 19.6 | 19.1 | 17.6 | 16.7 | 17.6 | 20.6 | 18.2 |
| Excess of Birth-rates over Death-rates. .... | 4.2  | 3.8  | 5.1  | 4.6  | 7.9  | 5.1  | 6.9  | 7.1  | 6.1  | 8.2  | 9.2  | 9.2  | 8.0  | 5.3  | 7.6  |
| Marriage-rates—persons married...            | 18.0 | 18.7 | 18.4 | 18.5 | 18.7 | 19.1 | 18.7 | 17.4 | 18.2 | 17.0 | 15.6 | 15.8 | 16.2 | 18.4 | 17.6 |
| Ratio of number of marriages.....            | 9.0  | 9.3  | 9.2  | 9.3  | 9.3  | 9.6  | 9.4  | 8.7  | 9.1  | 8.5  | 7.8  | 7.9  | 8.1  | 9.2  | 8.8  |

The following table will present the number, parentage, and proportion to total mortality of deaths from several of the most prominent causes of death, in their order of precedence:

|                           | Whole No.<br>of deaths. | Percentage<br>of deaths<br>from all causes. | Parentage |          | Excess of<br>Foreign<br>over Native. |
|---------------------------|-------------------------|---------------------------------------------|-----------|----------|--------------------------------------|
|                           |                         |                                             | Native    | Foreign. |                                      |
| Consumption.....          | 844                     | 10.60                                       | 238       | 606      | 368                                  |
| Pneumonia.....            | 742                     | 9.31                                        | 324       | 418      | 94                                   |
| Heart Diseases.....       | 685                     | 8.60                                        | 303       | 382      | 79                                   |
| Kidney Diseases.....      | 505                     | 6.34                                        | 224       | 281      | 57                                   |
| Apoplexy and Paralysis... | 499                     | 6.27                                        | 253       | 246      | —7                                   |
| Cholera Infantum.....     | 401                     | 5.03                                        | 132       | 269      | 137                                  |
| Accidents.....            | 346                     | 4.34                                        | 123       | 223      | 100                                  |
| Enteritis.....            | 343                     | 4.31                                        | 110       | 233      | 123                                  |
| Cancer.....               | 306                     | 3.84                                        | 145       | 161      | 16                                   |
| Brain Diseases.....       | 281                     | 3.52                                        | 103       | 178      | 75                                   |
| Old Age.....              | 234                     | 2.94                                        | 147       | 87       | —60                                  |
| Bronchitis.....           | 232                     | 2.91                                        | 88        | 144      | 56                                   |
| Diphtheria.....           | 177                     | 2.22                                        | 67        | 110      | 43                                   |
| Influenza.....            | 146                     | 1.83                                        | 79        | 67       | —12                                  |
| Typhoid Fever.....        | 103                     | 1.30                                        | 34        | 69       | 35                                   |
| Liver Diseases.....       | 100                     | 1.26                                        | 31        | 69       | 38                                   |
| Diarrhea and Dysentery..  | 96                      | 1.20                                        | 35        | 61       | 26                                   |
| Diabetes.....             | 81                      | 1.02                                        | 48        | 33       | —15                                  |
| <hr/>                     |                         |                                             |           |          |                                      |
| All causes.....           | 7,966                   | 100.00                                      | 3,264     | 4,702    | 1,438                                |

#### LONGEVITY OF DECEDENTS.

|                                             | 1901. | 1900. | 1899. | 1898. | 1897. | 1896. |
|---------------------------------------------|-------|-------|-------|-------|-------|-------|
| Average age in years of Male decedents..... | 35.01 | 31.81 | 34.04 | 34.34 | 33.71 | 30.86 |
| Female " .....                              | 38.07 | 35.58 | 37.30 | 36.34 | 37.06 | 34.47 |
| Total " .....                               | 36.51 | 33.67 | 35.67 | 35.31 | 35.37 | 32.61 |

There has been a gradual increase during the last forty years in the average length of life of decedents, taking periods of five years each, running from about twenty-nine and thirty-two one-hundredths years, at the beginning, to thirty-five and thirty-one one-hundredths years at the ending, in 1901.



## PERCENTAGE OF MORTALITY BY CLASSES.

|                              | 1901. | 1900. | 1899. | 1898. | 1897. | 1896. | 1895. |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Zymotic diseases.....        | 29.81 | 35.00 | 32.41 | 29.53 | 32.24 | 32.34 | 34.02 |
| Constitutional diseases..... | 4.72  | 4.49  | 4.57  | 4.56  | 4.27  | 3.80  | 3.98  |
| Local diseases.....          | 42.21 | 37.65 | 39.73 | 41.95 | 39.63 | 38.25 | 37.34 |
| Developmental diseases.....  | 17.30 | 17.68 | 18.24 | 18.18 | 18.78 | 20.13 | 19.18 |
| Violence, etc.....           | 5.96  | 5.18  | 5.05  | 5.78  | 5.08  | 5.48  | 5.48  |

## RATIOS OF MORTALITY.

As compared with the year 1900 there was little change in 1901 in the proportional mortality of several of the most important diseases occurring in larger or small numbers every year.

APOPLEXY AND PARALYSIS.—There were 7 less deaths from apoplexy and paralysis in 1901 than in 1900, and 42 more than in 1899. The number of deaths from these causes has been steadily increasing for the past thirty-five years.

BRONCHITIS.—The deaths from bronchitis were 63 less than in the previous year. Until the last five years there has been a steady increase in the proportionate mortality from bronchitis during the last twenty years, which must be attributed to something more than increased skill in differential diagnoses.

CANCER.—The deaths from cancer were 306 in 1901; 292 in 1900; 292 in 1899; 279 in 1898; and 254 in 1897. Cancer has increased considerably in its proportion of mortality to whole number of causes of death, during the last twenty-five years, and is probably due to increased facilities in diagnosis.

CHOLERA INFANTUM.—There were 401 deaths from cholera infantum in 1901, as against 557 in 1899. The proportion to whole number of deaths was 5.03 per cent. For the last 35 years it has been about 6.4 per cent.

CONSUMPTION.—There were 844 deaths from consumption, or pulmonary tuberculosis, in 1901. This does not include 26 from

general tuberculosis. Added to this there were 63 deaths from tubercular meningitis, 43 from tubercular enteritis and peritonitis, 7 from tubercular laryngitis, and 7 from tuberculosis of other organs.

A decided contrast will be seen in the proportion of the different diseases, by observation of the diagram shown on page 239. Here, considering the condition for 35 years, it will be seen that consumption has exceeded pneumonia more than sixty-two per cent. as a cause.

DIARRHOEA AND DYSENTERY.—The mortality from these diseases was 16 less in number than in the previous year, or 96 in 1901, and 112 in 1900.

DIPHTHERIA.—This disease had a mortality of 177 in 1901, which was 13 less than in 1900; 150 of these were in Providence county, 84 being in Providence city. The percentage to the whole number of deaths was 2.22.

FEVERS, MALARIAL.—These had a mortality of 23 in 1901, and 21 in 1900.

FEVER, TYPHOID.—There were 103 deaths from typhoid fever in 1901, and 127 in 1900. Typhoid fever, as a disease and as a cause of death, has gradually lessened in both proportions, as compared with other important diseases, during the last 20 years.

HEART, DISEASES OF.—The deaths from diseases of the heart in 1901 numbered 685, against 701 in 1900. Diseases of this organ have been gradually increasing during the last thirty-five years. See Table LXXVIII, page 245, Reg. Rep.

INFLUENZA.—The number of deaths reported as from this disease in 1901 was 146, or 109 less than in 1900. During the year 1892 there were 366 deaths from this cause.

KIDNEYS, DISEASES OF.—The number of deaths from diseases of the kidneys in 1901 was 505, the number in 1900 was 516. Diseases

of these organs have been gradually assuming large importance as causes of death during the last thirty-five years. The ratio of mortality for five years, 1896-1900, was nearly six times as large as the ratio for the years 1866-70. See Table LXXXI, page 255, Reg. Rep.

PNEUMONIA.—The number of deaths caused by pneumonia in 1901 was 742, as against 966 in 1900. Pneumonia has gradually increased in importance as a cause of death for the last thirty-five years. See Reg. Rep., Table LXXXVI, page 265.

SCARLET FEVER.—The number of deaths in 1901 was 21, 13 less than in 1900. The proportion was 0.3 per cent. of the whole number of deaths. Scarlet fever has largely decreased in epidemic prevalence and proportion of mortality during the last fifteen years, as compared with previous periods of fifteen years each.

SMALL-POX.—There were 5 deaths from small-pox in 1901, in 1900 there was one, two in 1894, none in 1893, and four in 1892. The diminution of cases, and the decrease of mortality as a consequence, has been quite remarkable during the last fifteen years. The efficacy of vaccination has had remarkable endorsement.



## REPORT OF CONTAGIOUS DISEASES DURING 1901.

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Since the year 1893 a system of reports of contagious diseases which have been reported to the health officers in the various towns and cities has been kept up by means of reports on circular postal cards to the State Board. This makes it possible to obtain a fairly comparative observation of the prevalence of these diseases during the several months, and in the course of the year.

It is admitted that not all cases of these diseases have been reported to the health officers. The physicians in two or three of the towns and cities do not make any effort to report their cases, owing to the inefficiency of the health officer and the apparent uselessness of making such reports, since no action, or only a tardy action, is taken to avail the public of the advantages accruing from the knowledge of the existence of these diseases. However, the failure to report being about the same every year, a comparison may be made.

By observation of the following tables it will be noted that the number of cases reported for *scarlet fever* were greater in 1895, and that during the year 1898 there were less than in any previous year.

The greatest prevalence of *diphtheria* during the past five years has been in 1896, the epidemic of 1895, continuing from the fall months, subsiding after January of the year following.

There have been fewer cases of *typhoid fever* reported each year since 1893 until 1898, in which year 251 cases were reported, an increase of 21 over the previous year. Since that time the number of cases of this disease has been steadily on the increase, the number for the year 1900, 475, being the largest since 1894. As this disease

may be introduced by milk or water supplies, and its prevalence cannot be determined until after the public have received the infection for a period of at least fourteen days, allowing seven days for incubation of the disease and seven days for the physician to become positive in his diagnosis, a few days must elapse before the health department is aware of the unusual prevalence and be prepared to investigate any cause which may be ascertainable. Therefore a sudden rise in numbers might occur in any one month of a year which would raise the total above the average.



## DIPHTHERIA FOR 1901.

| CITIES<br>AND TOWNS. | January. | February. | March. | April. | May.  | June. | July. | August. | September. | October. | November. | December. | For year. |
|----------------------|----------|-----------|--------|--------|-------|-------|-------|---------|------------|----------|-----------|-----------|-----------|
| Barrington.....      | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | .....     | .....     | 0         |
| Bristol.....         | 0        | 1         | 3      | 2      | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 2         | 8         |
| Warren.....          | .....    | .....     | 1      | 0      | 0     | ..... | ..... | .....   | .....      | .....    | .....     | 0         | 1         |
| Coventry.....        | 0        | 0         | 0      | 0      | 1     | 0     | 0     | 0       | 0          | 1        | 0         | 2         | 4         |
| East Greenwich..     | 0        | 0         | 2      | 1      | 2     | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 5         |
| *West Greenwich      | .....    | .....     | .....  | .....  | ..... | ..... | ..... | .....   | .....      | .....    | .....     | .....     | .....     |
| Warwick.....         | 5        | 0         | 0      | 0      | 0     | 0     | 0     | 1       | 2          | 9        | 5         | 12        | 34        |
| Jamestown.....       | 0        | 0         | 0      | 0      | 0     | ..... | ..... | .....   | .....      | .....    | .....     | .....     | 0         |
| Little Compton..     | 0        | 0         | 0      | .....  | ..... | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| Middletown.....      | 0        | 0         | 0      | 0      | 0     | 4     | 0     | 0       | 0          | 1        | 0         | 0         | 5         |
| Newport.....         | 1        | 4         | 1      | 3      | 0     | 5     | 2     | 0       | 3          | 5        | 8         | 1         | 33        |
| New Shoreham...      | 0        | 0         | 0      | 0      | 0     | ..... | ..... | .....   | .....      | .....    | .....     | .....     | 0         |
| Portsmouth.....      | 0        | 0         | 0      | .....  | ..... | 0     | 0     | 0       | 0          | 2        | .....     | 1         | 3         |
| Tiverton.....        | 0        | 0         | 1      | 0      | 0     | 1     | 0     | 0       | 0          | 0        | 0         | 0         | 2         |
| Burrillville.....    | 0        | 0         | 0      | 0      | 4     | ..... | ..... | 0       | 0          | 9        | 5         | 0         | 18        |
| Central Falls.....   | 3        | 4         | 4      | 0      | 0     | 1     | 0     | 1       | 2          | 3        | 2         | 1         | 21        |
| Cranston.....        | 2        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 2        | 4         | 1         | 9         |
| Cumberland.....      | 5        | 1         | 1      | 0      | 0     | 1     | 0     | 1       | 1          | 5        | 1         | 3         | 19        |
| East Providence.     | .....    | .....     | .....  | .....  | ..... | ..... | ..... | .....   | .....      | .....    | .....     | .....     | .....     |
| Foster.....          | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| Glocester.....       | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| Johnston.....        | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 2        | 0         | 0         | 2         |
| Lincoln.....         | 3        | 0         | 4      | 4      | 1     | 0     | 0     | 0       | 0          | 0        | 2         | .....     | 14        |
| North Providence     | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 2         | 0         | 2         |
| North Smithfield     | .....    | .....     | .....  | .....  | ..... | ..... | ..... | 0       | 1          | 0        | 1         | 3         | 5         |
| Pawtucket.....       | 21       | 7         | 12     | 4      | 0     | 1     | 0     | 4       | 0          | 6        | 12        | 9         | 76        |
| Providence.....      | 26       | 38        | 52     | 17     | 32    | 47    | 16    | 16      | 12         | 32       | 79        | 34        | 401       |
| Scituate.....        | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| Smithfield.....      | 1        | 0         | 0      | 0      | 0     | ..... | ..... | 0       | 2          | 0        | 0         | 0         | 3         |
| Woonsocket.....      | .....    | .....     | .....  | .....  | ..... | ..... | ..... | .....   | .....      | .....    | .....     | .....     | .....     |
| Charlestown.....     | .....    | .....     | .....  | .....  | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| *Exeter.....         | .....    | .....     | .....  | .....  | ..... | ..... | ..... | .....   | .....      | .....    | .....     | .....     | .....     |
| Hopkinton.....       | .....    | .....     | .....  | .....  | ..... | ..... | ..... | .....   | .....      | .....    | .....     | .....     | .....     |
| Narragansett.....    | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| North Kingstown      | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 1         | 1         |
| Richmond.....        | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| South Kingstown      | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| Westerly.....        | 4        | 0         | 0      | 0      | 3     | 1     | 1     | 0       | 0          | 0        | 0         | 0         | 9         |
| Total cases.....     | 71       | 55        | 81     | 31     | 43    | 61    | 19    | 23      | 23         | 77       | 121       | 70        | 675       |
| Total cases 1900..   | 56       | 32        | 29     | 28     | 23    | 30    | 26    | 21      | 30         | 53       | 78        | 100       | 506       |
| " " 1899...          | 18       | 23        | 22     | 11     | 19    | 25    | 16    | 14      | 23         | 35       | 41        | 51        | 298       |
| " " 1898...          | 54       | 46        | 31     | 30     | 28    | 19    | 13    | 6       | 12         | 34       | 39        | 31        | 343       |
| " " 1897...          | 103      | 47        | 67     | 59     | 61    | 48    | 38    | 59      | 77         | 147      | 117       | 70        | 893       |
| " " 1896...          | 117      | 76        | 74     | 108    | 70    | 49    | 53    | 45      | 69         | 121      | 114       | 125       | 1021      |
| " " 1895...          | 62       | 33        | 31     | 26     | 50    | 35    | 55    | 52      | 103        | 137      | 227       | 164       | 972       |
| " " 1894...          | 35       | 17        | 31     | 22     | 41    | 32    | 7     | 10      | 23         | 33       | 32        | 58        | 341       |

\* Has no health officer.

## SCARLET FEVER FOR 1901.

| CITIES<br>AND TOWNS. | January. | February. | March. | April. | May.  | June. | July. | August. | September. | October. | November. | December. | For year. |
|----------------------|----------|-----------|--------|--------|-------|-------|-------|---------|------------|----------|-----------|-----------|-----------|
| Barrington.....      | 1        | 0         | 1      | 1      | 1     | 0     | 0     | 0       | 0          | 0        | .....     | .....     | 4         |
| Bristol.....         | 1        | 0         | 4      | 8      | 2     | 0     | 4     | 0       | 3          | 4        | 6         | 0         | 32        |
| Warren.....          | .....    | .....     | 2      | 0      | 0     | ..... | ..... | .....   | .....      | .....    | .....     | 0         | 2         |
| Coventry.....        | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 1        | 0         | 0         | 1         |
| East Greenwich..     | 0        | 1         | 6      | 5      | 0     | 0     | 0     | 0       | 0          | 1        | 0         | 0         | 13        |
| *West Greenwich      | .....    | .....     | .....  | .....  | ..... | ..... | ..... | .....   | .....      | .....    | .....     | .....     | .....     |
| Warwick.....         | 2        | 0         | 4      | 5      | 6     | 6     | 2     | 1       | 1          | 2        | 2         | 4         | 35        |
| Jamestown.....       | 0        | 0         | 0      | 0      | 0     | ..... | ..... | .....   | .....      | .....    | .....     | .....     | 0         |
| Little Compton...    | 0        | 0         | 0      | .....  | ..... | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| Middletown.....      | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 1         | 7         | 8         |
| Newport.....         | 8        | 2         | 4      | 7      | 11    | 4     | 1     | 2       | 2          | 1        | 3         | 3         | 48        |
| New Shoreham...      | 0        | 0         | 0      | 0      | 0     | ..... | ..... | .....   | .....      | .....    | .....     | .....     | 0         |
| Portsmouth.....      | 0        | 2         | 0      | .....  | ..... | 0     | 0     | 0       | 0          | .....    | .....     | 1         | 3         |
| Tiverton.....        | 0        | 0         | 1      | 0      | 1     | 5     | 2     | 0       | 0          | 1        | 0         | 0         | 10        |
| Burrillville.....    | 0        | 0         | 0      | 0      | 2     | ..... | ..... | 0       | 0          | 0        | 0         | 0         | 2         |
| Central Falls.....   | 3        | 6         | 1      | 4      | 0     | 6     | 0     | 0       | 1          | 12       | 10        | 2         | 45        |
| Cranston.....        | 3        | 4         | 0      | 4      | 1     | 1     | 0     | 0       | 5          | 8        | 5         | 4         | 35        |
| Cumberland.....      | 11       | 5         | 3      | 2      | 0     | 2     | 5     | 3       | 2          | 3        | 0         | 1         | 37        |
| East Providence.     | .....    | .....     | .....  | .....  | ..... | ..... | ..... | .....   | .....      | .....    | .....     | .....     | .....     |
| Foster.....          | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| Glocester.....       | 0        | 0         | 0      | 0      | 1     | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 1         |
| Johnston.....        | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 1        | 0         | 0         | 1         |
| Lincoln.....         | 0        | 0         | 1      | 1      | 1     | 1     | 0     | 0       | 0          | 0        | 2         | .....     | 6         |
| North Providence     | 0        | 0         | 0      | 0      | 0     | 1     | 1     | 2       | 3          | 21       | 4         | 1         | 33        |
| North Smithfield     | .....    | .....     | .....  | .....  | ..... | ..... | ..... | 5       | 0          | 0        | 1         | 5         | 11        |
| Pawtucket.....       | 6        | 5         | 1      | 2      | 2     | 3     | 2     | 1       | 11         | 9        | 5         | 9         | 56        |
| Providence.....      | 22       | 22        | 27     | 19     | 24    | 25    | 12    | 11      | 4          | 22       | 30        | 16        | 234       |
| Scituate.....        | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 1       | 0          | 0        | 0         | 0         | 1         |
| Smithfield.....      | 1        | 0         | 0      | 0      | 0     | ..... | ..... | 0       | 3          | 8        | 6         | 6         | 24        |
| Woonsocket.....      | .....    | .....     | .....  | .....  | ..... | ..... | ..... | .....   | .....      | .....    | .....     | .....     | .....     |
| Charlestown.....     | .....    | .....     | .....  | .....  | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 6         | 6         |
| *Exeter.....         | .....    | .....     | .....  | .....  | ..... | ..... | ..... | .....   | .....      | .....    | .....     | .....     | .....     |
| Hopkinton.....       | .....    | .....     | .....  | .....  | ..... | ..... | ..... | .....   | .....      | .....    | .....     | .....     | .....     |
| Narragansett.....    | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| North Kingstown      | 0        | 0         | 0      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| Richmond.....        | 0        | 0         | 1      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 1         | 2         |
| South Kingstown      | 1        | 1         | 3      | 0      | 0     | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 5         |
| Westerly.....        | 0        | 0         | 0      | 1      | 0     | 0     | 0     | 0       | 0          | 0        | 1         | 1         | 3         |
| Total cases.....     | 59       | 48        | 59     | 59     | 52    | 54    | 29    | 26      | 35         | 94       | 76        | 67        | 658       |
| Total cases 1900...  | 88       | 55        | 68     | 119    | 54    | 53    | 20    | 20      | 22         | 49       | 76        | 58        | 682       |
| " " 1899...          | 33       | 46        | 48     | 20     | 43    | 30    | 25    | 23      | 65         | 68       | 91        | 115       | 607       |
| " " 1898...          | 66       | 57        | 47     | 40     | 58    | 48    | 15    | 25      | 26         | 79       | 66        | 45        | 572       |
| " " 1897...          | 80       | 47        | 47     | 51     | 34    | 57    | 41    | 35      | 42         | 77       | 53        | 63        | 629       |
| " " 1896...          | 78       | 97        | 61     | 72     | 48    | 30    | 29    | 28      | 33         | 46       | 92        | 87        | 701       |
| " " 1895...          | 168      | 132       | 118    | 123    | 69    | 78    | 56    | 47      | 55         | 63       | 87        | 91        | 1087      |
| " " 1894...          | 133      | 95        | 91     | 70     | 71    | 53    | 33    | 33      | 58         | 77       | 103       | 122       | 939       |

\* Has no health officer.

## TYPHOID FEVER FOR 1901.

| CITIES<br>AND TOWNS. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | For year. |
|----------------------|----------|-----------|--------|--------|------|-------|-------|---------|------------|----------|-----------|-----------|-----------|
| Barrington .....     | 0        | 0         | 0      | 0      | 0    | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| Bristol .....        | 1        | 0         | 1      | 3      | 1    | 0     | 2     | 0       | 2          | 0        | 1         | 0         | 11        |
| Warren .....         |          |           | 0      | 0      | 0    |       |       |         |            |          |           | 0         | 0         |
| Coventry .....       | 0        | 0         | 0      | 0      | 0    | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| East Greenwich..     | 0        | 1         | 0      | 0      | 0    | 0     | 0     | 1       | 0          | 0        | 0         | 0         | 2         |
| *West Greenwich      |          |           |        |        |      |       |       |         |            |          |           |           |           |
| Warwick.....         | 0        | 0         | 0      | 0      | 0    | 0     | 0     | 0       | 0          | 1        | 0         | 1         | 2         |
| Jamestown .....      | 0        | 0         | 0      | 1      | 0    |       |       |         |            |          |           |           | 1         |
| Little Compton..     | 0        | 0         | 0      |        |      | 1     | 1     | 0       | 0          | 0        | 0         | 0         | 2         |
| Middletown .....     | 0        | 0         | 0      | 0      | 0    | 0     | 0     | 0       | 0          | 0        | 0         | 1         | 1         |
| Newport .....        | 1        | 3         | 3      | 1      | 0    | 2     | 0     | 7       | 10         | 11       | 7         | 10        | 55        |
| New Shoreham...      | 0        | 0         | 0      | 0      | 0    |       |       |         |            |          |           |           | 0         |
| Portsmouth.....      | 1        | 0         | 0      |        |      | 0     | 0     | 2       | 0          | 0        |           | 2         | 5         |
| Tiverton .....       | 0        | 1         | 0      | 0      | 0    | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 1         |
| Burrillville.....    | 0        | 0         | 0      | 0      | 0    |       |       | 0       | 0          | 0        | 0         | 0         | 0         |
| Central Falls.....   | 0        | 1         | 0      | 0      | 0    | 0     | 0     | 1       | 0          | 1        | 2         | 1         | 6         |
| Cranston .....       | 1        | 2         | 0      | 0      | 1    | 0     | 0     | 0       | 1          | 0        | 1         | 1         | 7         |
| Cumberland.....      | 0        | 0         | 0      | 0      | 0    | 0     | 0     | 1       | 1          | 0        | 0         | 0         | 2         |
| East Providence.     |          |           |        |        |      |       |       |         |            |          |           |           |           |
| Foster.....          | 0        | 0         | 0      | 0      | 0    | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| Glocester.....       | 0        | 0         | 0      | 0      | 0    | 0     | 0     | 0       | 0          | 0        | 1         | 4         | 5         |
| Johnston .....       | 0        | 0         | 0      | 0      | 0    | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| Lincoln.....         | 0        | 0         | 0      | 0      | 0    | 0     | 0     | 0       | 0          | 1        | 0         |           | 1         |
| North Providence     | 0        | 1         | 0      | 0      | 0    | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 1         |
| North Smithfield     |          |           |        |        |      |       |       | 0       | 0          | 0        | 0         | 0         | 0         |
| Pawtucket.....       | 2        | 0         | 0      | 0      | 0    | 1     | 0     | 1       | 4          | 4        | 4         | 0         | 16        |
| Providence .....     | 11       | 8         | 10     | 7      | 6    | 7     | 3     | 7       | 12         | 22       | 25        | 21        | 139       |
| Scituate.....        | 0        | 0         | 0      | 0      | 0    | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| Smithfield.....      | 0        | 0         | 0      | 0      | 0    |       |       | 0       | 0          | 0        | 0         | 1         | 1         |
| Woonsocket.....      |          |           |        |        |      |       |       |         |            |          |           |           |           |
| Charlestown.....     |          |           |        |        | 0    | 0     | 0     | 0       | 0          | 0        | 0         | 1         | 1         |
| *Exeter.....         |          |           |        |        |      |       |       |         |            |          |           |           |           |
| Hopkinton.....       |          |           |        |        |      |       |       |         |            |          |           |           |           |
| Narragansett.....    | 0        | 0         | 0      | 0      | 0    | 0     | 0     | 0       | 0          | 0        | 0         | 0         | 0         |
| North Kingstown      | 1        | 0         | 0      | 0      | 1    | 1     | 1     | 0       | 0          | 0        | 0         | 0         | 4         |
| Richmond.....        | 0        | 0         | 0      | 0      | 0    | 0     | 0     | 0       | 0          | 1        | 0         | 2         | 3         |
| South Kingstown      | 0        | 0         | 0      | 0      | 2    | 0     | 0     | 3       | 5          | 6        | 0         | 0         | 16        |
| Westerly .....       | 1        | 0         | 0      | 2      | 1    | 0     | 1     | 1       | 0          | 1        | 2         | 2         | 11        |
| Total cases.....     | 19       | 17        | 14     | 14     | 12   | 12    | 8     | 24      | 35         | 48       | 43        | 47        | 293       |
| Total cases 1900...  | 12       | 7         | 11     | 6      | 10   | 16    | 9     | 27      | 71         | 171      | 83        | 52        | 475       |
| " " 1899...          | 7        | 8         | 13     | 5      | 10   | 10    | 24    | 40      | 89         | 50       | 32        | 38        | 326       |
| " " 1898...          | 20       | 20        | 33     | 18     | 10   | 6     | 8     | 16      | 28         | 39       | 25        | 28        | 251       |
| " " 1897...          | 18       | 9         | 6      | 8      | 12   | 9     | 5     | 21      | 33         | 39       | 35        | 35        | 230       |
| " " 1896...          | 33       | 17        | 21     | 14     | 9    | 13    | 19    | 46      | 65         | 31       | 31        | 26        | 325       |
| " " 1895...          | 104      | 35        | 15     | 18     | 8    | 13    | 30    | 25      | 34         | 46       | 53        | 90        | 471       |
| " " 1894...          | 61       | 27        | 54     | 23     | 25   | 14    | 13    | 54      | 59         | 76       | 55        | 31        | 492       |

\* Has no health officer.

# TUBERCULOSIS.

*Examinations of Sputum for Tuberculosis, from January 1, 1901, to  
January 1, 1902.*

| CLINICAL DIAGNOSIS.                        | Total. | Tubercle<br>Bacilli<br>present. | Tubercle<br>Bacilli<br>absent. | Past cases<br>in family. | Present cases<br>in family. |
|--------------------------------------------|--------|---------------------------------|--------------------------------|--------------------------|-----------------------------|
| Bronchitis .....                           | 121    | 31                              | 90                             | 22                       | 6                           |
| Bronchitis, chronic.....                   | 35     | 11                              | 24                             | 14                       | 1                           |
| Tuberculosis, pulmonary.....               | 465    | 255                             | 210                            | 103                      | 4                           |
| Suspected tuberculosis, no diagnosis given | 39     | 12                              | 27                             | 6                        | .....                       |
| Tubercular laryngitis.....                 | 14     | 7                               | 7                              | 4                        | .....                       |
| Tubercular meningitis.....                 | 1      | .....                           | 1                              | 1                        | .....                       |
| Hemorrhage of lungs.....                   | 1      | .....                           | 1                              | .....                    | .....                       |
| Asthma.....                                | 5      | 2                               | 3                              | .....                    | .....                       |
| Pneumonia (after).....                     | 12     | 2                               | 10                             | 3                        | .....                       |
| Influenza.....                             | 2      | 1                               | 1                              | .....                    | .....                       |
| Pleurisy.....                              | 12     | 3                               | 9                              | .....                    | .....                       |
| Catarrh.....                               | 4      | 1                               | 3                              | .....                    | .....                       |
| Trachetis.....                             | 2      | 1                               | 1                              | .....                    | .....                       |
| Pharyngitis.....                           | 1      | .....                           | 1                              | .....                    | .....                       |
| Scrofula.....                              | 1      | 1                               | .....                          | .....                    | .....                       |
| Typhoid fever (after).....                 | 2      | .....                           | 2                              | .....                    | .....                       |
| Endocarditis.....                          | 1      | .....                           | 1                              | .....                    | .....                       |
| Pyelitis.....                              | 1      | .....                           | 1                              | 1                        | .....                       |
| "Slow fever".....                          | 1      | .....                           | 1                              | .....                    | .....                       |
| Total.....                                 | 720    | 327                             | 393                            | 154                      | 11                          |

## TUBERCULOSIS.

Number of examinations of sputum..... 720  
 Number in which tubercle bacilli were found..... 327  
 Number in which tubercle bacilli were not found..... 393

During the year there were 720 specimens of sputum submitted for examination, with the supposition on the part of the attending physician that tuberculosis might be a factor in the causation of the symptoms of the patient.

Of these cases, in 465 the clinical symptoms present were sufficiently distinctive to lead the physicians to believe that tuberculosis of the *lungs* was present. In 255 of these cases the examination of the specimen of sputum showed the presence, in greater or lesser quantity, of tubercle bacilli. This would make 55 per cent. of cases where the clinical diagnosis coincided with the bacterial findings, while in 210 cases, or in 45 per cent., the bacilli of this disease were not found. While this negative result is of value, yet it does not carry the weight of a distinct negative, as to the actual presence of the disease, for it is possible to obtain from the patient a specimen of sputum which is composed of only the saliva and secretions from the larynx, and containing none from the air passages in the lungs. The organisms may also be present at times, in the lung, either lying dormant or encapsulated, and will not be discharged into the air passages, and become a part of the sputum, until a degenerative process is set up which breaks down the tissues about the organisms and sets them free.

In the 14 cases of tubercular laryngitis 7 were positive. The application of this method of diagnosis is especially valuable in this form of the disease, inasmuch as the appearance of the larynx may indicate the presence of ulcerative processes, and the formation of tubercles from other causes.

It is of especial value in these cases, for the organism may not as yet have invaded the lung, but if the cases are neglected, they may readily be carried to the lung or intestine, and there propagate the disease.

It is of interest to note that, of 181 cases of chronic and acute bronchitis, in 42 cases the diagnosis was erroneous, and the presence of tuberculosis was established in the bronchi, if not, also, in the lungs. The constitution of the patient, however, being suffi-

ciently strong, as yet, to prevent the invasion of the organisms into large areas, the symptoms present were not sufficiently distinct, or alarming, to warn the physician of the dangerous element which was present. In 43 instances, where the diagnosis of bronchitis was made, there had been other cases of the disease in the family.



## RECORDS OF ALL CASES OF DEATH BY CONSUMPTION IN THE STATE.

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As a part of the investigation of the subject of tuberculosis in man, a card catalogue record of all deaths from pulmonary tuberculosis has been arranged. At present this data is available from the commencement of the year 1890, and is completed to date. This division of the work affords much interesting material for study. The number of deaths for the different years was as follows:

|                     |        |
|---------------------|--------|
| Deaths in 1890..... | 911    |
| “ “ 1891.....       | 814    |
| “ “ 1892.....       | 848    |
| “ “ 1893.....       | 812    |
| “ “ 1894.....       | 825    |
| “ “ 1895.....       | 839    |
| “ “ 1896.....       | 846    |
| “ “ 1897.....       | 777    |
| “ “ 1898.....       | 886    |
| “ “ 1899.....       | 972    |
| “ “ 1900.....       | 987    |
| “ “ 1901.....       | 990    |
| <hr/>               |        |
| Total.....          | 10,507 |

These 10,507 cases are recorded on cards with the following data: Name, address, age, color, married, single, or widow, name before marriage, and date of death. By collecting the names in this way it is observed that certain names recur at varying periods of time, and by looking up the individual case further it will be found that

this death has occurred in a family where previous deaths from consumption have taken place, the address in many cases being the same.

In many instances there were two cases occurring in the same family; in other instances, three and four cases.

Should the records go back for more years, a larger number would be discovered.

In addition to the card catalogue of the names of the decedents, a separate card catalogue of the *premises* where the death occurred has been kept, and thus it is possible to ascertain when any particular house may have, by chance, been infected with this disease. It is further possible to ascertain if more than one case has occurred in any one house.

## EXAMINATION FOR THE CONTROL OF DIPHTHERIA.

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During the year 1901 there were 1,638 cultures examined for the presence of diphtheria. Of this number the Klebs Loeffler bacillus of diphtheria was found in 564 cases, 407 of these showing a pure, unmixed culture of Klebs Loeffler, and 157 a mixture with micrococci. The bacilli were absent in 1,074 cases.

The membrane in the suspected cases was located on the tonsils in 473 cases, on the pharynx in 19 cases. There were other cases already in the same family in 282 cases.

The duration of the disease before the disappearance of the bacilli from the culture is shown in the table.

In the 2 cases where it remained for one day only, it may be explained that although there may have been an error in the microscopic examination, yet it is possible that the second culture may have been from the secretions on the tongue and not from the back of the throat.

The patient usually recovers his strength and the symptoms of the disease may subside in a few days, and yet the bacillus of diphtheria remain growing in the throat. The patient having had the disease has become immune against the toxine produced by the bacilli. These bacilli, although attenuated, may last for a long time in this throat. If they are transferred to the throat of another person whose system is non-resistant against the invasion or growth of this organism, as with all other pathogenic organisms, they may take on renewed strength and become of a virulent character in the second throat.

## DIPHTHERIA.

| CLINICAL DIAGNOSIS.        | RESULTS.                                      |                |             |            |                               |      |                 |                   |          |         | LOCATION.       |                 |          |          |                         | DURATION.                 |            |             |          |           |           |        |                       |
|----------------------------|-----------------------------------------------|----------------|-------------|------------|-------------------------------|------|-----------------|-------------------|----------|---------|-----------------|-----------------|----------|----------|-------------------------|---------------------------|------------|-------------|----------|-----------|-----------|--------|-----------------------|
|                            | Total number<br>primary cultures<br>examined. | K. L. present. | K. L. pure. | K. L. Mic. | Total number<br>K. L. absent. | Mic. | Mic. and strep. | Mic. and bacilli. | Bacilli. | Contam. | Unsatisfactory. |                 | Tonsils. | Pharynx. | Tonsils and<br>pharynx. | Other parts of<br>throat. | None seen. | None given. | One day. | Few days. | One week. | Weeks. | One month or<br>more. |
|                            |                                               |                |             |            |                               |      |                 |                   |          |         | No growth.      | Unsatisfactory. |          |          |                         |                           |            |             |          |           |           |        |                       |
| Tonsilitis.....            | 201                                           | 43             | 29          | 14         | 158                           | 129  | 7               | 7                 | 10       | 1       | 4               | 149             | 0        | 4        | 3                       | 31                        | 14         | 25          | 82       | 112       | 5         | 1      | .....                 |
| Follicular tonsilitis..... | 123                                           | 28             | 21          | 7          | 95                            | 66   | 6               | 8                 | 9        | 3       | 3               | 96              | .....    | 2        | 1                       | 12                        | 12         | 14          | 39       | 72        | 8         | 4      | .....                 |
| Diphtheria.....            | 336                                           | 182            | 132         | 50         | 154                           | 115  |                 | 2                 | 7        | 6       | 16              | 188             | 15       | 34       | 22                      | 30                        | 47         | 76          | 110      | 174       | 22        | 28     | 2                     |
| Pharyngitis.....           | 35                                            | 7              | 5           | 2          | 28                            | 22   | 0               | 1                 | 1        | 0       | 4               | 3               | 2        | 2        | 2                       | 23                        | 3          | 6           | 17       | 11        | 2         | 3      | .....                 |
| No diagnosis—S. D.....     | 140                                           | 24             | 17          | 7          | 116                           | 93   | 9               | 1                 | 6        | 2       | 5               | 14              | 1        | 1        | 1                       | 21                        | 102        | 9           | 30       | 106       | 4         | .....  | .....                 |
| Croup.....                 | 9                                             | 3              | 1           | 2          | 6                             | 3    | 1               | 0                 | 0        | 0       | 2               | 3               | 1        | .....    | 2                       | 3                         | .....      | .....       | 4        | 2         | 3         | .....  | .....                 |
| Sore throat.....           | 33                                            | 10             | 7           | 3          | 23                            | 18   | 3               | 2                 | 0        | 0       | 0               | 14              | .....    | 1        | 2                       | 10                        | 6          | 4           | 10       | 16        | 7         | .....  | .....                 |
| Scarlet fever.....         | 7                                             | 1              | 1           | 0          | 6                             | 6    | 0               | 0                 | 0        | 0       | 0               | 6               | .....    | .....    | .....                   | .....                     | 1          | .....       | 2        | 4         | .....     | 1      | .....                 |
| Precautionary.....         | 265                                           | 16             | 9           | 7          | 249                           | 194  | 20              | 6                 | 19       | 4       | 6               | .....           | .....    | .....    | .....                   | .....                     | .....      | 148         | .....    | .....     | .....     | .....  | .....                 |
| Totals.....                | 1,149                                         | 314            | 222         | 92         | 835                           | 646  | 54              | 27                | 52       | 16      | 40              | 473             | 19       | 44       | 33                      | 130                       | 185        | 282         | 294      | 497       | 51        | 37     | 2                     |
| Secondary cultures.....    | 489                                           | 250            | 185         | 65         | 239                           | 176  | 16              | 11                | 10       | 14      | 12              | .....           | .....    | .....    | .....                   | .....                     | .....      | .....       | .....    | .....     | .....     | .....  | .....                 |

Total number of cultures examined, 1,638.

|                                                     |     |
|-----------------------------------------------------|-----|
| Number of cases in which 2nd culture was taken..... | 122 |
| “ “ “ 3d “ “ “ .....                                | 55  |
| “ “ “ 4th “ “ “ .....                               | 36  |
| “ “ “ 5th “ “ “ .....                               | 15  |
| “ “ “ 6th “ “ “ .....                               | 12  |
| “ “ “ 7th “ “ “ .....                               | 6   |
| “ “ “ 8th “ “ “ .....                               | 5   |
| “ “ “ 9th “ “ “ .....                               | 1   |
| “ “ “ 10th “ “ “ .....                              | 2   |

*Duration of Disease in Secondary Cultures.*

|                    |          |                                    |
|--------------------|----------|------------------------------------|
| One day.....       | 2 cases. |                                    |
| Few days.....      | 24 “     | Number of cases in which secondary |
| One week.....      | 36 “     | cultures were taken and patient    |
| Few weeks.....     | 106 “    | was not ill.....                   |
| Month or more..... | 61 “     | 25                                 |

Of the 314 primary cultures found to be positive, in 79 cases the presence of the bacilli had already been found in the throat of some other member of the family.

One case started December 21, with a suspicious case in family, and membrane on larynx ; sent in as a “cautionary culture.” K. L. found and continued until the 9th culture, February 12, 1901—57 days.

## EXAMINATION FOR WIDAL REACTION IN TYPHOID FEVER CASES.

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Continuing the work commenced during the previous year for the testing of blood specimens from cases of suspected typhoid fever, its value was shown by advantage taken of the opportunity for the Widal test by physicians throughout the State.

While confirming a diagnosis of typhoid fever in cases where the symptoms were sufficiently distinctive, the test was also of service in establishing the presence of the disease in many cases that were obscure and in which the symptoms were similar to other febrile conditions extending over a period of time.

The following table gives the number of examinations made during the year and also those of 1900, and also the results found:

|               | 1900. | 1901. |
|---------------|-------|-------|
| Positive..... | 43    | 70    |
| Negative..... | 91    | 102   |
| Doubtful..... | 8     | 3     |
| Total.....    | 142   | 175   |



## WORKING OF THE MEDICAL PRACTICE ACT.

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### AMENDMENT OF THE MEDICAL PRACTICE ACT.

The original bill governing the practice of medicine in this state was passed at the January session of the legislature in 1895.

The law provided, under Chapter 1353 of the Public Laws and Chapter 165 of the General Laws, as revised in 1896, as follows:

SECTION 1. That a register of physicians be kept, by the city and town clerks, of all physicians who are duly qualified and who are registered in the respective towns.

SEC. 2. Provided that the practice of medicine is unlawful without registration of certificate of authority, and provided also for the registration of data as to the person registering.

SEC. 3. Specified that the State Board of Health should issue the certificate to physicians who possessed the following qualifications:

1st. A diploma from a reputable and legally chartered medical college, endorsed as such by the State Board of Health.

2nd. Satisfactory evidence from the person claiming the same that such person was reputably and honorably engaged in the practice of medicine and surgery in the State prior to January first, eighteen hundred and ninety-two.

Any person not possessing the diploma and not having been in practice in this State three years prior to its passage should be required to submit himself to such examination as said Board may require, and such person if qualified should receive the certificate entitling him to practice medicine. Also that a fee of ten dollars should be paid for each such examination. Also that two dollars should be paid for a certificate issued under either three of the conditions provided.

SEC. 4. Provided that no itinerant doctor may register.

SEC. 5. Provided that the Board may refuse to issue a certificate, or revoke a certificate issued, when the individual was guilty of unprofessional conduct likely to deceive and defraud the public. Also provided for appeal from the decision to the supreme court.

SEC. 6. Provided that no discrimination shall be made against any school or system of medicine, nor against surgeons of the United States Army or Navy or the Marine Hospital Service; nor was the law to apply to physicians who were legally qualified to practice in another State but who were called to see a particular case in this State, but who did not open an office in this State where they might receive calls.

SEC. 7. Provided that it should be the duty of the State Board of Health to bring cases of infringement of the law to the attention of the courts.

SEC. 8. Provided that any person living in this State, or any person coming into this State who should practice medicine or surgery, or attempt to practice medicine or surgery in any of its branches, or who should perform or attempt to perform any surgical operation for or upon any person within the limits of this State for reward or compensation, in violation of the provisions of this law, should, upon conviction thereof, be fined fifty dollars, and upon each and every subsequent conviction should be fined one hundred dollars and imprisoned thirty days, or either or both, in the discretion of the court; and in no case, where any provision of this law has been violated, should the person so violating be entitled to receive compensation for services rendered. To open an office for such purpose, or to announce to the public in any other way a readiness to practice medicine or surgery in this State, was to engage in practice of medicine within the meaning of the law.

Under this law all physicians who had been practicing in this State and all who subsequently located here complied with the law and were duly registered.

A few exceptions to this rule were arrested and prosecuted before the courts, and when convicted were fined.

It was found, however, after the law had been in force six years,

that certain persons had been enabled to practice medicine and surgery upon the people of the State without a certificate, and owing to the form of the law were able to evade the penalties for so doing.

The mistakes and negligence of a sect called Christian Scientists had caused much suffering and distress and death, without any care or assistance by available medical or surgical remedial measures.

Certain persons had endeavored to practice by offering to do so free from fee or reward, obtaining their compensation through the sale of remedies, the price of which would be equal to or greater than the price which would be charged for advice and medicine combined.

Acting upon the experience acquired, a law was framed which should include all forms of attempts to assume the responsibility of the medical and surgical welfare of the public, and should include all acts in which the responsibility of life and death was assumed by an individual.

This was necessarily intended to reach a large class of charlatans who fed not only upon the public purse but upon the feelings and strength of the gullible sufferers who, yielding up their hoardings, or mortgaging their hard earned property, sacrificed their all upon the unfounded promise of a stranger that a cure would be effected—no matter what the malady nor how near to death's door the patient might be. Innumerable instances were and are now constantly brought to the notice of the department. Sums of money reaching up into the many hundreds have been filched from laboring men by charlatans who have left their patients without means of support for themselves and large dependent families, the patients dying within a short time.

Necessarily a law covering this class must include the faith healer, the "Little Feather Girl," the hoodoo doctor, and the Christian Scientist.

A bill fully covering all these conditions was presented, and met with a flood of opposition by this new and strange sect who claimed that in the land of Roger Williams, where free and religious liberty is the foundation, base, pillar, and pilaster of all who dwelt therein, any

one who had a religious belief, no matter how disastrous to self and the community, should be permitted to undertake to care for any ills which might come to any one believing, also to deny the existence of decaying humanity, to declare the impossibility of death, and to allow suffering and neglect to follow in their wake.

The secretary of the Board appeared in favor of the bill before the committee having charge of the hearing of the bill, while many people, some of them socially respected, were present in opposition to the bill. The committee did not see its way clear to recommend the bill in the form presented. The mind curists did not object to a correct form of medical supervision for others than themselves, and with the compromise that their sect or others believing likewise might be exempt from any legal control, the bill was amended and passed.

The provisions of the amended medical practice bill which was passed at the November session of 1901 was a modification of the existing law only in certain sections, as follows:

SEC. 3. Authority to practice medicine under this chapter shall be a certificate from the state board of health, and said board shall, upon application, after examination, issue a certificate to any reputable physician who intends to practice medicine or surgery in this state and who shall present himself before the state board of health and pass in a satisfactory manner such examination as said board may require. Any physician so presenting himself shall pay to said board the sum of ten dollars (\$10) for each examination, and said fee shall in no case be returned, but shall be applied to pay the expenses of said board of health in conducting such examinations. Each certificate so issued shall be signed by the president and countersigned by the secretary of said board and shall be attested by the official seal, and not more than two dollars (\$2) shall be charged for a certificate.

It will be noticed that a change from the original law provides for the issuance of a certificate only on passage of a successful examination before the Board. No diploma is required, and no certificate is to be issued simply upon the presentation of a diploma, no matter in how good standing the college issuing the diploma may be before the Board.

As had been the experience of other States requiring an examination, it had been found that many students who had graduated from schools in good standing as rated before all boards, and had received diplomas, were unable to pass the examinations presented to them and in which a majority of applicants were successful. This suggested something radically wrong with the issuance of diplomas. On the other hand many students who had graduated from schools which had no-standing before the board, and which gave a limited course of instruction, proved individually to have acquired sufficient information from a poor course to pass the requirements of States which required an examination for the issuance of a certificate.

The law as changed placed the merits of the condition upon the individual applicant to be decided by the board, which is responsible to the public which it represents, and not upon favoritism or conditions which might prevail at the graduation of an individual from any or all colleges.

This section also disposed of the possibility of a successful application of a "time limit" man, or one who had been in practice three years before the enactment of the original law. After six years all who unfortunately were entitled to that privilege had been accommodated. All the original herb doctors, quacks with patent cure-alls, men with specific remedies for all diseases which man has, men who were willing to take any responsibility—none of these men could after this period be deprived of a distinct and honest (?) business and thus be deprived of his bread and butter and his support, no matter how much the confiding public might be imposed upon by this support.

Section 5 was so modified as to provide that a certificate might be revoked from one who had been guilty of violating the laws of the state, or "for any fraud or deception committed in obtaining such certificate." This was found desirable as the result of the revocation of a certificate of a man who had borrowed a diploma from a physician who had the same name and who had attended the same college. This man had continued in practice for over a year, and while numer-



ous reports that his methods of practice showed an ignorance of medicine which was evident to the laity, had been received, yet the Board was not in possession of evidence until he had imposed upon the public for over a year. The certificate was revoked, and the man departed to other fields.

Another change provided that revocation might follow "for any other cause which in the opinion of said board shall render the holder of such certificate an unfit person to practice medicine in this state."

This would probably include persons who by their repeated demonstrations of ignorant practice might prove a serious menace to the people upon whom they practiced. Also such persons who by their personal habits of intemperance or immoral conduct, or by illegal practices from a medical standpoint, might be a source of detriment to the public weal and health.

This section also conferred upon the individual members of the Board the power and dignity of administering oaths to any witnesses in proceedings brought before the Board, empowered the Board also to summon witnesses by subpoena and to compel such witnesses to attend and testify in the same manner as witnesses are compelled to appear and testify in either division of the supreme court. It also authorized the Board to compel the production of "all papers, books, documents, records, certificates, or other legal evidence that may be necessary or proper for the determination and decision of any question," and provides also a penalty for non-compliance with these demands, providing also for punishment for contempt in like manner as before the supreme court.

These requirements and penalties appear to place in the hands of a board, not versed in legal decisions and actions, almost an arbitrary power, and at first thought would appear to be too general and too inclusive.

With the present composition of the Board there should be no fear that this privilege or authority would be abused or improperly used, and it would not be the best policy of the Board to take improper or autocratic advantage of these privileges, for by so doing it might



defeat the successful administration of its work in this line.

Yet cases had occurred in the form of hearings before the Board where this authority was necessary for a true presentation of the evidence presented before the Board.

If at any time the authority is abused amendments would and should readily be enacted, revoking this power.

In this amended law provision was made for *subpœne duces tecum*, upon the suggestion of the secretary of the Board. Also false swearing would be deemed perjury, with the attendant penalties.

Provision was also made that any decision or ruling against the defendant, applicant, or practitioner revoking his certificate, or refusing the issuance of a certificate, should be objected to before the supreme court within a specified time, namely within ten days after receiving notice of the decision of the Board.

Section 6 was so modified as to provide that a physician legally qualified in another State should practice on the individual case in this State *only* when in consultation with a qualified physician registered in this State.

This provision was necessitated by the fact that certain charlatans residing in a neighboring State, and some of them very near the border, were in the habit of visiting all parts of the State, imposing their methods of extortion and malpractice upon the gullible people in this State, and as they came to see "only individual cases" although these might be numerous, and although they opened no office in the State, yet made appointments to meet their patients at the residence of the victim.

Previous to the changes in the law made at this time (1901) section 7 had been modified so as to require the secretary of the Board to be the prosecuting officer instead of the Board as a whole, and also provided that the Secretary should not be required to give surety for costs. This made it specific as to who should bring the case before the courts, and did not leave it with the chance of the police department being the prosecutor or not as it might please that department.

Much indecision has always been associated with the law of almost

every State as to what constituted the practice of medicine, therefore section 8 was materially modified to include as far as would be allowed by the legislature the conditions or acts which constituted the practice of medicine.

It was provided that anyone receiving compensation for their services for relief or aid in the form of the practice of medicine and surgery, or anyone with the intent of receiving any bonus, gift, or compensation for services rendered, would be considered as engaged in the practice of medicine and surgery.

It also provided that if this compensation was received directly or *indirectly* the offence was equally culpable. This was necessitated by the action of certain persons who would open a drug store, or advertise "consultation free," and receive their compensation indirectly through the sale of some article or articles or drugs from the store where the consultation was held.

Section 8 also provided that the use of the title of doctor or any abbreviation thereof, or M. D., or any other title or designation implying the practice of medicine, "or in any other way," before the public, would be considered guilty of a misdemeanor if the person was not duly registered to practice in this State.

With these amendments and modifications of the law as originally established it was hoped that a class of irresponsible charlatans might be held in check from their schemes of extortion and in their practices of causing continued and unrelieved suffering. Of course those who offered to cure disease or attempted to do so by spiritual or imaginative means could not be included in this law.

The full text of the law as amended will be found in the Appendix.

#### ATTEMPT TO CREATE AN EXAMINING BOARD OF OSTEOPATHY.

At the January session of the legislature a bill was introduced providing for the creation of a board of examiners for the issuance of licenses to practice osteopathy. This bill also provided that the

practice of osteopathy did not constitute the practice of medicine within the meaning of the existing medical practice act.

The resolution was as follows:

AN ACT REGULATING THE PRACTICE OF OSTEOPATHY.

*It is enacted by the General Assembly as follows:*

SECTION 1. The system, method, or science of treating diseases of the human body commonly known as osteopathy is hereby declared not to be the practice of medicine by drugs within the meaning of Chapter 165 of the General Laws and of any acts in amendment thereof or in addition thereto, and not subject to the provisions thereof.

SEC. 2. Any person having a diploma regularly issued from any legally incorporated and regularly conducted school of osteopathy, who shall have been in personal attendance as a student at such school for at least four courses of study of five months each before graduation, shall have authority to treat diseases according to such system and collect fees for such service: *Provided*, that after presenting his diploma to the examining board hereinafter mentioned, and having passed a satisfactory examination before said board in the following branches, to wit, anatomy, physiology, histology, pathology, gynecology, obstetrics, surgery, chemistry, and the practice of osteopathy, he shall be granted a certificate to that effect and shall be registered as a qualified osteopathic physician. A fee of ten dollars shall be paid such board by each applicant before the examination is had. The certificate granted shall be recorded in the office of the clerk of the city or town in which the applicant proposes to practice, for which he shall pay the fee of one dollar.

SEC. 3. The certificate provided for in the preceding section shall entitle the practitioner to all the rights and privileges accorded a physician or doctor of medicine under the laws of the state, but shall not authorize the holder to prescribe or use drugs in his practice, nor to perform major or operative surgery.

SEC. 4. Within thirty days after the passage of this act it shall be the duty of the governor to appoint a board of examiners of three in number. The members of said board shall be graduates of a regularly conducted and reputable school of osteopathy and of good moral and professional character, whose duties it shall be to examine such applicants as present themselves for examination to practice osteopathy in this state. The term of office of such members shall be three years: *Provided*, that one member shall be appointed for one year, one for two years, and one for three years, and subsequently each appointment shall be for the full term

of three years. Any vacancy that may occur for any cause on the board shall be filled by the governor.

SEC. 5. The fees paid such board shall be applied to the payment of the expenses of such board and as full compensation to its members for their services.

SEC. 6. Any person who shall attempt to practice or use the system, method, or science of osteopathy in treating diseases of the human body without having complied with the provisions of this act shall be guilty of a misdemeanor, and upon conviction shall be fined not exceeding one hundred dollars for each offense: *Provided*, that nothing in this act shall be construed as prohibiting any legally authorized practitioner of medicine or surgery of this state from curing or relieving diseases with or without drugs or by any manipulation by which the disease may be cured or alleviated.

SEC. 7. Any corporation organized under the laws of the state of Rhode Island for the purpose of establishing, conducting, and maintaining a college of the science of osteopathy shall have authority to confer on the graduates of such college the degree of "doctor of osteopathy" or "diplomat in osteopathy," together with such other privileges and powers as are usually granted to and exercised by scientific institutions of learning.

SEC. 8. Any resident of this state at the time of the passage of this act who holds a diploma regularly issued from any legally incorporated and regularly conducted school of osteopathy, and who has been in personal attendance as a student at such school for at least four courses of study of five months each before graduation, shall be entitled to practice osteopathy in this state without further examination; and shall be entitled to receive from the board of examiners mentioned in section four of this act a certificate of the facts mentioned in this section, upon payment to said board of a fee of ten dollars: *Provided*, that said certificate shall be recorded in the manner prescribed in section two of this act.

SEC. 9. This act shall take effect from and after its passage.

For a year or two previously there had been established in the city of Providence a school of osteopathy. It was located in one of the office buildings on one of the principal streets and occupied two or three rooms, some of which were devoted to the reception of patients and for treatment. The school advertised freely and had a number of pupils, or students, and a number of patients.

The school was duly incorporated, and a certain number of the incorporators were members of the same family and were also instructors in the school. One physician who was duly registered to practice in this State was enrolled among the instructors.

The bill was evidently introduced at the request of the incorporators of the school, and was evidently intended for their personal advantage as well as for the protection of osteopathic practitioners against prosecution for practice of medicine, and also to prevent the practice of osteopathy by anyone who might claim the title of osteopathic physician.

A hearing was given by the House Committee on Judiciary, at which the president of the school, assisted by an attorney, presented the reasons for asking for this form of legislation. It was claimed that osteopathy was a form of practice in cure of disease which required special knowledge and instruction such as could be given only in a school of osteopathy; that it was capable of curing all forms of disease; that many diseases incurable by the ordinary methods used in medicine and surgery might be cured by this new method; that the courses given in this study at the school in Providence fitted a graduate with knowledge equal to any medical school in the country, and a graduate was fully competent to undertake the care of any medical or surgical case to which he might be called; that there were charlatans and irregulars who professed to have an osteopathic education but who were not competent, and that the graduate of this school and graduates of other properly conducted schools in other States should also be protected from the dangers arising from the practice of incompetent osteopaths. The president of the school, Dr. Riley, in response to a question from the chairman of the committee, in explaining what osteopathy means, stated that osteopaths do not believe that a dose of medicine is necessary. "We believe," he said, "that a free flow of the fluids of the body is health, and that an obstructed flow is disease. We believe that the artery and the nerve should be co-ordinate, and that the force of one should be equal to the force of the other. We believe that if a man is suffering from muscular rheumatism in the right shoulder the right shoulder is what should be treated, and that is more direct than by treating it by means of medicine taken into the stomach. We believe that it is shorter to go to Pawtucket in a direct line than by way of Boston.



"We have been practicing since 1872. This osteopathy was discovered by a man of good standing, an old army surgeon. We believe we have a right to recognition. If it does no good, it at least does no harm. We believe that objection has never been urged. We argue, therefore, that the restrictions going about us should not be as rigid as those which surround those administering drugs and medicines. I claim that the rights of the osteopath should be respected. I believe that we should not be of concern to the medical profession at all, any more than the barber or the innkeeper. We do not claim that we can cure every disease, but we do claim that we have a right to practice. We claim that we must be able to cure, or we can't have patronage.

"It is claimed that our science is mysterious; not at all. It is not as mysterious as that followed by the regular physicians, who use drugs and send you to the drug store with Latin formulæ. We use no drugs or knives, and if there is any mystery it is on the part of our brethren. But the latter condemn our practice by saying that it is a fad and a fake and will soon peter out. We simply ask that we be given the right to practice this form of treatment as others practice theirs."

"I understand that you do not use medicine at all?" said Judge Blodgett.

"Not at all" said Dr. Riley. "We claim that our doctors are as well posted in physiology and what they are going to practice as the physicians of the other schools."

"What do you do?" inquired Judge Blodgett. "You have told us what you do not."

"We treat by manipulation" said Dr. Riley. "We make a thorough physical examination, and then we correct such faults as we find existing."

"How would you treat a right arm in which there was rheumatism?" inquired Judge Johnson.

"We should treat the nerves leading to the arm, or such nerves as we found affecting the arm," replied Dr. Riley.



"Could you reach those nerves by external manipulation?" inquired Judge Blodgett.

"We could," Dr. Riley replied.

It was also explained by one of the petitioners for the bill that he knew of remarkable cures resulting from the treatment given by osteopaths. "Osteopathy was born by the death of a son of Dr. Still. The boy died after all efforts of the medical profession had failed to save him. Dr. Still became a hermit for a time, and evolved this system of treatment. When he first put his treatment into practice he was met with opposition, but his remarkable cures brought him into prominence, as did also the cures by those who had learned the science from Dr. Still." He argued that the graduates of the school of osteopathy were the peers of the graduates of any of the medical colleges.

At a second hearing the opponents of the bill were permitted to present their objections. They consisted of representatives from the State Board of Health, and a few physicians; also by persons whose livelihood depended upon the administration of massage, who felt that this law would cause them to be excluded from their business by the osteopaths, whose form of treatment consists of manipulation of the different parts of the body.

The secretary of the State Board of Health made inquiry as to the meaning of the term osteopathy, which appeared to have very little connection with the intent of the line of practice as laid out by the originators of this form of treatment of disease.

That as manipulation and violent movements of different parts of the body was an essential feature of the treatment a perfect knowledge of pathological or diseased conditions which might be present should be had before one should be permitted to undertake treatment of this kind. It was manifestly impracticable to teach pathology and the several branches of medicine named in the bill in three or four rooms in an office building. The claim of such a school being equal to any of the medical schools having large lecture halls and laboratories, a

large corps of instructors and unlimited facilities for instruction in hospitals, was preposterous.

No school of medicine gave a course of less than six months and many required eight months' study for four years, and then the knowledge acquired was none too complete, and yet this school would propose to give an equal amount of knowledge in a course of five months for two years.

Such a bill would be a stimulus to unscrupulous persons to establish schools of osteopathy or other schools having unusual and new methods of treatment, and they would naturally need protection in the same way.

If, as had been stated, all the graduates of these schools were as competent as any graduate in medicine, and knew even more, there should be no hesitancy for any osteopath to undertake the examination of the State Board of Health as to their proficiency, and the public would be equally well protected. The Board in its examination did not judge the applicant's knowledge by any exclusive system of medicine, homœopathic or eclectic physicians having the same consideration as regular practitioners. The judgment made was to determine if in the practice of medicine the applicant was a safe person to undertake the care of the public and that danger from ignorance might be eliminated.

The committee did not feel justified in recommending the bill to the House for action, and the attempt to obtain legislation was abandoned.

In the meantime the State Board of Health has not seen its way clear to prosecute any persons who are practicing osteopathy, owing to a decision of the Supreme Court rendered upon cases of Christian Scientists, Faith Healers, and others.

#### PROSECUTION OF AN OSTEOPATH.

For the purpose of ascertaining to what extent the practice of osteopathy became a part of the practice of medicine, inspectors were

detailed to investigate the methods used at the Rhode Island College of Osteopathy, where the patients were received and treated for such ailments as they might complain of.

The evidence obtained showed that while massage of the spine and manipulation of the joints formed the essential part of the treatment, yet it was also found that where these measures failed, or were not satisfactory to the patient, drugs and medicines were prescribed and delivered to the patient, accompanied with advice as to the manner of taking the medicine.

The osteopath who was alleged to have prescribed and treated in this way and was unlicensed to practice medicine, and was the assured head of the college, was arrested, and upon appearance before the district court waived examination and allowed the case to go before the grand jury, which found him probably guilty, and the case was referred to the Supreme Court. An explanation given by the osteopath was to the effect that while he gave the medicines and advice personally to the patient, he had just obtained both from a physician who was retained by the college and who was continually on the premises. This physician did not appear to the patient.

At the close of the year the case was still pending in the courts.

#### CHANGES IN THE REQUIREMENTS FOR EXAMINATION FOR CERTIFICATES TO PRACTICE MEDICINE.

At a meeting of the Board held on March 14, 1901, it was voted that:

"In order to conform to the suggestions of the New England States Medical Examining and Licensing Boards and to make the examination of applicants less cumbersome it was voted that:

"Hereafter a supplementary examination shall embrace only the subjects of surgery, theory and practice, obstetrics and gynecology.

"A full examination shall embrace the subjects of anatomy and physiology, chemistry and materia medica, pathology, surgery, theory and practice, obstetrics and gynecology, and hygiene and medical jurisprudence.

"There shall be ten questions upon each set of subjects.

“An average of seventy-five (75) per cent. of all subjects must be successfully attained for passage of the applicant.”

#### APPEAL IN CASE OF JOSEPH N. ROY.

In 1900 the Board gave numerous hearings to a Joseph N. Roy, who had obtained a certificate on a borrowed diploma and had practiced for a period of a year before the imposition was discovered by the Board.

As the result of the evidence presented at the hearings, his certificate to practice medicine was revoked by the Board.

The charge of the State Board of Health against Joseph N. Roy was that he procured a certificate for the practice of medicine by displaying a diploma from Laval University, which diploma had been granted to an entirely different person who bore a similar name; that Roy was not possessed of sufficient education to practice medicine with safety to the people of the State, and that he had been guilty of grossly unprofessional conduct in obtaining a certificate by misrepresentation. Roy appealed from the action of the State Board, but before his appeal had been taken up he moved to quash the proceedings against him. His motion was based on arguments that the Board had no jurisdiction to try him on the charge and specifications made, for the reason that none of the specifications amounted to grossly unprofessional conduct of a character likely to deceive or defraud the public.

Judge Rogers, who wrote the opinion, said that if the defendant obtained his certificate to practice medicine by misrepresentation and fraud he was guilty of conduct likely to deceive or defraud the public by inducing it to believe that he was lawfully entitled to practice medicine by reason of the qualifications that would honestly entitle him to the certificate, and that such conduct would be grossly unprofessional seemed too plain to require argument. The deception and fraud that were initiated at the granting of the certificate were kept up and continued every time he practiced medicine in this State under the pretended authority of a fraudulently obtained certificate.

Hence the contention that the gross unprofessional conduct must occur after the granting of the certificate to practice had no application there.

The ground urged, that the Board never found any of the charges true, it was held, would not justify quashing the proceedings. "The third ground," said the opinion, "for the motion to quash is because paragraph 5 of chapter 165, General Laws of Rhode Island, is unconstitutional, in that it conflicts with paragraph 1, article 10, of the Constitution of the State.

"That section provides that the judicial power of this State shall be vested on one Supreme Court and in such inferior courts as the General Assembly may from time to time ordain and establish, the contention being that the State Board of Health is not a court and that the powers granted to it are judicial powers. \* \* \*

"While perhaps there may be force in the contention that the State Board of Health is not strictly a judicial body, yet we do not deem it necessary to decide that question here, for even if it is not a judicial body it does not follow, in our opinion, that the act is unconstitutional.

"Statutes similar to the one under consideration, restricting the practice of medicine to persons who are able to demonstrate their qualifications, have been held constitutional as a proper exercise of the police power of the State in very many States of the Union as well as in the Supreme Court of the United States. \* \* \*

"Even if the State Board of Health is only an administrative board and not a court, we see nothing objectionable on constitutional grounds to the method provided in said chapter 165 for getting the matters involved before a court that it may be determined judicially."

Judge Rogers held that jury trial was not a right of the defendant in such a case as this, hence the statute in question was not necessarily unconstitutional. He also contended that the defendant was wrong in stating that the State Board acted both as court and prosecutor, since the Board was not the complainant.



## DEATH OF DOCTOR PETER FRANCIS CURLEY, MEMBER OF THE BOARD.

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For a second time since its formation in 1878 the board has met with the loss of a member by death. In 1893 its honored secretary was taken from the ranks, and again the board is called to mourn the decease of one of its members, Dr. Peter Francis Curley, the representative from the county of Newport.

Dr. Curley was appointed as a member of the board in the year 1890. His personal presence at the meetings of the board always introduced a feeling of brotherly association which is not usually found among men meeting for the transaction of business of this nature, and his absence will be felt for a long period.

His devotion to his professional life was reflected in the manifestations of esteem, reverence, and grief expressed by the concourse of his fellow-citizens which gathered to do honor to his remains. This was especially marked among the children of his city of residence; by the attendance of a large number of the clergy of his faith; and by the poorer classes of his patients, to whom much of his life and strength was given gratuitously.

At a meeting of the board called for the purpose, the following resolutions were adopted by the board as expressing in but a small part the feelings of the board.

Formal notice of the death of Dr. Curley having been communicated by the secretary, it was, on motion, unanimously

*Voted*, That the following minute be spread upon the records of the Board:

The recent removal by death from the scene of his earthly activities of Dr. Peter F. Curley, of Newport, imposes upon the board as an official body the obvious official duty of making recognition of the sad event on its records. But in



discharging this duty the members of the board desire to avail themselves individually of the opportunity of giving expression to their profound sense of personal loss in the departure of their late and long-time associate. Dr. Curley had been for ten years a member of the State Board of Health. His services during those years had been invaluable. The important work intrusted to the board had been with him a matter of vital interest, and he had never sought to evade his responsibilities in connection with it, whether in the way of participation in the formal proceedings of the board as an organization, or in that of promoting its work in the important portion of the State which he represented. Residing at a distance, and engrossed with extensive professional duties, he, nevertheless, was rarely absent from the regular or special meetings of the board, attendance on which must have involved considerable sacrifice of time and convenience. The exacting and delicate duties of his position in cases requiring examination of applicants for certification were intelligently and conscientiously performed. Of the intercourse of the other members of this board with their late associate personally they find great gratification in testifying to the unfailing courtesy and geniality on his part, which, through all the years of their association with him, have made it gratefully memorable to them and deepened the sense of personal loss which his removal now occasions.

It was, on motion, further

*Voted*, That a copy of the record of this action of the board be transmitted by the secretary to the family of Dr. Curley, and also to the press for publication.

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At the January session of the General Assembly, Governor William Gregory, Governor, with the advice and consent of the Senate, appointed Dr. Rufus H. Darrah, of Newport, to fill the vacancy in the board caused by the death of Dr. Peter F. Curley.

## SMALL POX IN THIS STATE.

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While small pox had prevailed in various towns outside of the State, and also in close social and commercial contact for many months, it seemed fortunate, though not to be expected, that it did not appear in any or all of the manufacturing villages and cities of this State. With the operative population continuously changing their homes and places of work from mill to mill, a few, if not many, cases might be expected to occur. Not until the middle of June, however, did the invasion occur.

### LINCOLN.

In the town of Lincoln, about June 13, one or more cases were discovered among the operatives in the mills. The discovery of one case led to the exposition of others in the same family. This in turn led to the knowledge of cases in other families. In several of the cases discovered the patients had already recovered and were in the later stage of desquamation, and were traveling about the streets and visiting their friends.

This led to the belief that many cases might have existed and recovered without medical attendance. This afterwards proved to be the case. In the endeavor to discover these and subsequent cases the health officer was hindered in many ways. The population, being mostly of French Canadian birth and having no fear of the disease and its consequences and not being impressed with the seriousness of its spread to others, paid little attention to it. As soon as they observed activity on the part of the authorities they at once endeavored to conceal any cases which occurred. Aside from the fear of these people that they would be quarantined and deprived of the privilege of continuing to work in the mills, there appeared a disposition in many, but not all, cases to obstruct the investigation of the authorities.

Many families, where the disease had been present in several persons, would deny its presence. In some cases the patients would be hidden away in closets at the time of the visit of the inspecting officers, who may have heard of the case as one which had been walking on the street. These people are all more or less familiar with the appearance and symptoms of small pox, owing to its prevalence in Canada, yet every eruption would be considered by them as some simple form of skin disease, and they would hope to pass through the different stages of the disease and escape discovery. In this many were successful, so much so that the disease appeared simultaneously in families who were unknown to each other, except possibly by contact in their daily labors.

Such cases would be discovered sometimes only after several cases had occurred in one particular room in a mill or other close association.

These cases, in their indignation or surprise at discovery of having the disease, would state that such a person had had a similar eruption for some time and they were not apprehended, and why should these new ones suffer any restraint. Not until then would the origin of a local outbreak be discovered.

To be sure, the mild character of the prevailing epidemic, both in amount of skin manifestations and in the constitutional symptoms, caused many of these cases to take little note of the trouble, though such cases could not be wholly excused when it was probably known that small pox had entered the State and was spreading, and that any unusual eruption of the skin was a suspicion which, for the good of the public as well as of the person, should receive attention. Expense of examination could not be offered for excuse, since the town provided physicians who would diagnose the condition, if present, and refer the case to the family physician.

Apathy and antagonism on the part of the town council, which constitutes in all small towns the health department, aggravated the conditions and placed obstacles in the way of the health officer in the performance of his duties.

The class or nationality in which the disease appeared constituted

the major portion of the voting population. Votes and official position are synonymous. Hence the influence politically was strong, and when politics and health matters clash something is very sure to happen. The intelligent public after a short period becomes awakened to its rights and demands them

The continued appearance on the streets of persons having a peculiar or unusual form of eruption on the face at last led the authorities to authorize the expenditure of money, the appointment of assistant health officers to serve as examiners or inspectors, and the authorization of general vaccination at the expense of the town. House to house inspections were made, and many unsuspected cases discovered in concealment or in ignorance of the character of the eruption.

To obtain satisfactory results from vaccination a majority of the population must be made immune against the disease. It was impracticable for the physicians to meet the many cases of unvaccinated between the hours of labor. It has always been the custom in manufactories in towns where the disease has prevailed to assist the health officers or vaccinating physicians by offering every facility to the vaccinating officer to meet such of the operatives, as desire protection, during working hours.

They are congregated in one spot, they are easily accessible. The time per capita consumed for the operation is small, and the protection of the manufactories enormous.

Unfortunately the controlling manufacturing interest in this town did not view this proposition in the same light as the sanitarians of the whole world who are familiar with the neglect of this procedure and its consequences.

Request for assistance from the management and from the owners of the manufacturing interests present was refused. Important business interests were left to the decision of the superintendents, whose shortsighted horizon could not see beyond the local town, until public sentiment and the multiplication of cases of small pox sounded

an alarm which could not be resisted. Co-operation was then grudgingly given.

But the mischief had been done. The disease had been allowed to spread, and this small town of Lincoln, of 9,500 inhabitants, had between the middle of June and the first of September over fifty cases of small pox which had been discovered. Those which escaped observation can not be determined, but from the appearance of the disease in places remote from the known centres of infection it would lead to the belief that many cases escaped observation and record.

The natural sequence of such an action on the part of a seemingly intelligent manufacturing interest was shown by the fact that mills outside of this town refused to receive the product of the mills so long as this carelessness and lack of precautions existed. The amount of loss to such a corporation can not be estimated, because the officers of the firm are unable to understand the far-reaching results which are reported to the State Board of Health.

Of the fifty discovered cases of small pox in the town of Lincoln, forty-nine were operatives in the Manville Mill, so-called, the only remaining case being a farm hand who had come to the town from North Smithfield during the prevalence of the disease.

After vaccination had been well distributed among the population and the health officers had succeeded in placing in quarantine a large number of cases, the epidemic ceased.

It seems unfortunate that one local community may continue to revel in the production of a serious and dangerous malady to the detriment and contamination of the neighboring towns, and that no legal restraint may be made by some central authority, national or State.

As an illustration of such carelessness, the following incident may be noted: Information was received during the progress of the epidemic in New England that a certain town in Massachusetts near the border of Rhode Island had broken up a camp where small pox existed and had scattered cases to other towns, and some of the cases found their



way to this State. It was felt that this procedure was unwarranted and was at least not very neighborly.

#### CUMBERLAND.

Only three cases occurred in the town of Cumberland. The first, on June 24th, in the person of a plate layer on the N. Y., N. H. & H. R. R., and the other two being operatives in the Manville Mill, where so many other cases had occurred.

This town was particularly fortunate in not having its expense account greatly increased as the result of the invasion of the disease, although the cost pro rata was quite sufficient to show the seriousness of the presence of the disease.

#### CITY OF PROVIDENCE.

From May 26, to June 29, nine cases occurred. (See Report of Superintendent of Health, page 97.)

#### CITY OF NEWPORT.

On June 11 an isolated case of the disease was found to be a domestic in one of the families which constitute the summer colony of visitors to Newport. The family had recently moved from New York, where the disease was probably contracted, since no cases had previously occurred in this city and no communication with other States had occurred to any member of the family. The case was at once removed to an isolation cottage and cared for. Vaccination of all persons who had been exposed was at once attended to by the attending physician, and no further cases occurred as the result of contact with this case.

On October 7 a case was reported on Appleby street. This proved to be a genuine case in the person of a captain of the Salvation Army Corps.

Several persons who boarded at this station, or home, either con-



tracted the disease from this case or from the original source of infection to which the captain had been exposed.

Cases continued to occur until November 8, making fourteen cases, all of which were contracted from the first case or from those who had been exposed with the first case.

An isolated house was selected and equipped as a reception hospital, and the cases were properly quarantined and treated.

Over 10,000 persons were vaccinated in the city at this time.

#### CITY OF PAWTUCKET.

The first case to occur in the city of Pawtucket was in the latter part of June. From June 30 to July 16 new cases appeared among children in a parochial school. None of these children had been vaccinated. The General Laws require that all children in attendance upon the public schools shall be properly vaccinated, but no provision is made for this safeguard in the parochial schools.

All of these children were French Canadians. Some of these were quarantined in their homes until provision could be made for receiving them when the small pox hospital was opened.

This practically new and airy building had been provided some years previous by the forethought of some of the prominent physicians and the city fathers, and by its readiness to receive these and the following cases saved the city of Pawtucket a large expense which would have occurred if quarantine had been maintained at each residence or until a hospital could have been provided or erected and equipped.

Up to July 24 five other cases appeared, and no more until one in September, the latter as a result of exposure in Woonsocket, where the disease had gained a foothold at that time.

One of these cases gave the health officer considerable trouble and anxiety. The father of a child who had the disease spirited the patient away while the health officer was making preparations to transfer the case to the hospital. The father refused to state where

the mother had gone with the child. He was a well-to-do and well-known citizen, a French Canadian, and enjoyed a prosperous grocery trade. He had, up to this time, assisted the health officer by allowing the use of one of his spare wagons as an ambulance to transfer other cases to the hospital. After much persuasion, and after he had seen the unenviable position in which he had placed himself before his fellows and his customers, it was ascertained that the mother had fled to Gardner, Mass., with the child. He could not remember well where the fugitives would visit, but after considerable more argument the exact house in the town of Gardner was ascertained. The health officer of that town was at once notified by telegram and the case was at once quarantined by him at that point. It was reported that other cases occurred at Gardner, later, as a result of this migration.

#### WOONSOCKET.

The city of Woonsocket, having a population of 30,000, of which 8,000 are of the manufacturing class and with a preponderance of Canadians, it would be assumed that this city, would be the first to be subjected to an outbreak of small pox. Although the disease had prevailed in several towns in the northern part of the State and the inhabitants were constantly visiting Woonsocket, and people living in towns in Massachusetts where the disease existed were frequent visitors to the city, yet the disease did not appear until the middle of July.

After the appearance of the first case, however, the number increased daily, as was to be expected. Cases were found working in the mills while in a state of desquamation.

The mayor and board of aldermen took prompt and effective action. Dr. William C. Monroe, the health officer, was directed to take all precautions and to assume any necessary expense in establishing and maintaining quarantine and in providing public vaccination. He was also directed to select a site for a hospital to receive the new

cases as fast as they might occur, for it could be anticipated that a large number would appear.

The infection was received from various points, some of the cases having visited in families where the disease was present in the Dominion of Canada.

By the end of the year twenty cases had been reported. Some of these were quarantined in their own houses; but as soon as the hospital was established nearly all of the cases were transferred to the Cass Park Hospital, where every convenience for the care of such cases was provided. Up to this time over \$10,000 had been spent in controlling the epidemic.

The hospital was most admirably located in a large isolated and undeveloped park land owned by the city, and the efficient health officer superintended the arrangement and erection of a number of cottages of different sizes and a central administration building, new cottages being added as the demands made necessary. The buildings were all of wood, and the whole equipment was installed with a minimum of expense and yet provided everything requisite for the successful accommodation and care of as many patients as might be quarantined.

As was to be expected in dealing with a foreign population, a disregard, and even opposition, to common sanitary precautions was shown.

The French Canadians, accustomed to the disease and seeing it spread without check in their own homes in Canada, resented any interference with their privilege of mingling with the people, working in the factories, and spreading the disease as it might happen. They had no confidence in precautions of any kind, and vaccination was to them a fetich or a good luck omen which had no power.

As an illustration, the secretary, in company with the health officer, discovered four cases of small pox in a family of eleven persons varying in age from three years to seventy and residing in a tenement of four rooms accommodation. Two of the cases had the eruption covering from the whole face to the soles of the feet. Both subsequently

died. Not one of the family had been vaccinated. All were advised that it was necessary that those who had not yet shown symptoms of the disease should be vaccinated. At this proposition there was a wail of dissent. Upon explaining that they would undoubtedly all have the disease, living as they were in such close and unsanitary contact, the reply was, as in many other cases, "If we take the disease, we have it. If we die, it is the Lord's will, but we will not be vaccinated." The result was, as expected, using the same cups, spoons and other utensils. The free coughing of the victims necessarily spread the disease among those confined with it, and, none being vaccinated, all finally reproduced the disease. Of these two died and several others were disfigured for life, a condition to which they seemed to attach no importance. It is a proud insignia of nationality.

This statement should not be applied to the more intelligent class of Canadians, but it must be remembered that it was the working and more or less unenlightened class of working people which continued the existence of the disease.

To add to the anxiety and application of advanced common sanitary sense, a certain number of influential politicians, urged on by a large voting and political influence, made endeavor to check the work of the health officer by suggesting that the disease that prevailed was not small pox, in spite of the fact that it had been shown conclusively to be present in the towns of Connecticut and Massachusetts and within fifteen minutes' ride of their own city in the State of Rhode Island. Certain tradesmen who, having received the disease in their own families, endeavored, with the acquiescence and encouragement of certain French physicians to conceal the presence of the disease. Fearing loss of trade if their houses were quarantined they not only refrained from reporting the presence of the disease, but sought to conceal it, hoping that in a period of six weeks or more they could recover and not be discovered.

In all instances this attempt was frustrated. One person or more would be overcome by the disease as the result of exposure to the members of these concealed cases, and then in their indignation they

would report the source of their contagion, the concealment of which they were in sympathy with until they themselves were the sufferers, and then they were only too ready to expose the violaters of the law.

The experience in this city was the same as in the presence of all epidemics. The concealment of cases led to hysterical alarm until the declaration of its presence and the usual application of precautionary measures produced confidence and a freedom of communication and business.

To add to the difficulties of the health officer, a resolution enacted by the city council provided that certain experts, to be invited from distant parts, should examine the cases which were called small pox by the local authorities, and these experts should decide if small pox existed in Woonsocket. The health officer, Dr. Monroe, and the secretary of the Board, with the assurance of confirmation of any intelligent and experienced authorities, only too gladly welcomed the consultation of experts from abroad. They felt that, as it would be necessary for the city to expend an unusual amount of money for the control of the disease, it was proper that the council of the city should have a sure foundation for such an expenditure.

As the result of the action of the city council, three experts were employed to visit the city and pronounce upon the existence or absence of small pox.

Dr. Laberge, of Montreal, and Drs. McCullom and Shea, of the Boston City Board of Health, were invited. They visited several of the cases present in the city of Woonsocket, and without hesitation declared that these cases were small pox and no other disease, and, as had been recommended by the local officers, complete isolation and thorough and complete vaccination should be instituted. This consultation cost the city five hundred dollars, but was an expenditure necessary for the furtherance of confidence and justification for large expenditures which were sure to come.

The council then, having the assurance of the public sentiment, made no equivocation upon expenditure of necessary funds for con-



trolling the disease as recommended from time to time by the health officer.

The work of the health officer, hampered as it was at times, obstructed almost by force at other times, in the face of ignorance and organized defy, was at times more than would be borne by the average American citizen. But in the face of all, at the sacrifice of the loss of a lucrative personal private practice, he met and fought against this concentration of opposition with a zeal which at times was more than equal to his physical strength. But the result of his efforts was obvious. That the city of Woonsocket, populated as it was and in close association with each other in the manufactories, did not present a much larger number of cases and a large mortality was due to the untiring and unselfish efforts of one who was willing to sacrifice his personal advantage to the common good.

These statements are not made for the purpose of laudatory expression of an individual, but to illustrate that the right health officer in any place can be productive of benefit to the common good.

For Woonsocket the year ended with 20 cases of small pox on hand, a fairly good disposition toward general vaccination, a continued opposition from foreign citizens to obey the law, a mayor and board of alderman prepared to meet any emergency, a hospital equipped and successfully maintained, a health officer pretty well tired out, and the possibilities of an extension of the disease.



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# GENERAL LAWS.

## CHAPTER 96.

### OF THE STATE BOARD OF HEALTH.

SECTION 1. The governor, with the advice and consent of the senate, shall appoint six persons, two from the county of Providence, and one from each of the other counties, who shall constitute the state board of health, one of whom shall be appointed in each year for the term of six years from the first day of July. Any appointment to fill a vacancy shall be filled for the remainder of the term. Of the persons so appointed, at least three shall be well-educated physicians and members of some medical society incorporated by the state. The governor may remove any member, for cause, at any time, upon the written request of two-thirds of the board

The state board of health, appointment; vacancies, how filled; removals, how made.

SEC. 2. The board shall take cognizance of the interests of life and health among the citizens of the state; they shall make investigations into the causes of disease, and especially of epidemics and endemics among the people, the sources of mortality, and the effects of localities, employments, conditions, and circumstances on the public health, and shall do all in their power to ascertain the causes and the best means for the prevention of diseases of every kind in the state. They shall publish and circulate, from time to time, such information as they may deem to be important and useful for diffusion among the people of the state, and shall investigate and give advice in relation to such subjects, relating to the public health, as may be referred to them by the general assembly, or by the governor when the general assembly is not in session.

Duties of the board, with reference to life and health among the citizens of the state.

SEC. 3. The state board of health shall also investigate the subject of diseases among the cattle or other animals.

To investigate diseases among cattle, etc. Meetings.

SEC. 4. The board shall meet in the city of Providence once in three months, and as much oftener as they may deem necessary. No member of the board, except the secretary, shall receive any compensation for his services; but the actual personal expenses of any member, while engaged in the duties of the board, shall be paid by the state.

Compensation.

Secretary.

SEC. 5. The board shall elect a well-qualified physician as their secretary, who shall be *ex-officio* a member of the board, the commissioner of public health and state registrar; but he shall not be permitted to vote on any question in which he is personally interested.

Duties of secretary.

SEC. 6. The secretary of the board shall make inquiry, from time to time, of the clerks of town and local boards of health and practicing physicians, in relation to the prevalence of any disease, or knowledge of any known or generally believed source of disease or causes of general ill-health, and also in relation to the proceedings of the said boards of health, in respect of acts for the promotion and protection of the public health, and also in relation to diseases among domestic animals in their several towns; and the said clerks of town and local boards of health and said practicing physicians shall give information, in reply to said inquiries, of such facts and circumstances as shall have come to their knowledge.

Same subject.

SEC. 7. The secretary shall perform and superintend the work prescribed for said board by law, and such other duties as the board may require; he shall prepare and publish, in every calendar month, a general summary of all the deaths, and causes of the same, which have occurred in the state during the preceding month, the same to be made up from returns of deaths which shall be made to him on or before the tenth day of the month following the date of such deaths, by the several town clerks, the city registrar of Providence, and the city clerks of the other cities; he shall also prepare and publish for general distribution a monthly circular giving information and advice in regard to the preservation of health, suitable for each particular season, and giving also such information as he shall deem of advantage to the public, as to the prevalence and character of infectious diseases of domestic animals. He shall hold his office during the pleasure of the board, and may be removed at any regular meeting by a majority vote of the members of said board.

Office and expense of the board.

SEC. 8. The governor shall provide a suitable office for the board in the city of Providence; and the actual expenses of the board and of the members thereof, when certified by the chairman and approved by the governor, shall be paid from the state treasury.

To report annually.

SEC. 9. The board shall make a report in print to the general assembly, annually, of its proceedings during the year ending on the thirty-first day of December next preceding, with such suggestions in relation to the sanitary laws and interests of the state as they shall deem important.



## CHAPTER 165.

## OF THE PRACTICE OF MEDICINE

(As amended November, 1901.)

SECTION 1. It shall be the duty of each town and city clerk to purchase a book of suitable size, to be known as the "medical register" of each city or town, and to set apart one full page for the registration of each physician; and when any physician shall die or remove from the city or town, said clerk shall make a note of the same at the bottom of the page, and shall on the first day of January in each year transmit to the office of the state board of health a duly certified list of the physicians of said city or town registered under this chapter, together with such other information as is hereinafter required, and perform such other duties as are required by this chapter; and such clerk shall receive the sum of fifty cents from each physician so registered, which shall be his full compensation for all the duties required under this chapter.

Register of physicians to be kept by city and town clerks.

Annual list to state board of health.

Compensation.

SEC. 2. It shall be unlawful for any person to practice medicine or surgery in any of its branches, within the limits of this state, who has not exhibited and registered, in the city or town clerk's office of the city or town in which he or she resides, his or her authority for so practicing medicine as herein prescribed, together with his or her age, address, place of birth, and the school or system of medicine to which he or she proposes to belong; and the person so registering shall subscribe and verify by oath, before such clerk, an affidavit containing such facts, which, if willfully false, shall subject the affiant to conviction and punishment for perjury.

Practice of medicine is unlawful without registration of certificate of authority.

SEC. 3. Authority to practice medicine under this chapter shall be a certificate from the state board of health, and said board shall, upon application, after examination, issue a certificate to any reputable physician who intends to practice medicine or surgery in this state and who shall present himself before the state board of health and pass in a satisfactory manner such examination as said board may require. Any physician so presenting himself shall pay to said board the sum of ten dollars (\$10) for each examination, and said fee shall in no case be returned, but shall be applied to pay the expenses of said board of health in conducting such examinations. Each certificate so issued shall be signed by the president and countersigned by the secretary of said board and shall be attested by the official seal, and not more than two dollars (\$2) shall be charged for a certificate.

Certificate of authority and examination by board.

Fee.

Certificate to be how signed; fee therefor.



Itinerant doctors are precluded.

SEC. 4. Nothing in this chapter shall be so construed as to authorize any itinerant doctor to register or to practice medicine in any part of this state.

Certificates may be refused or be revoked, when.

SEC. 5. The board may, after due notice and hearing, in its discretion refuse to grant the certificate provided for in section 3 of this chapter to any physician who is not of good moral character, or who has violated any of the laws of the state, or who has been guilty of gross unprofessional conduct or conduct of a character likely to deceive or defraud the public, and may, after due notice and hearing, revoke any certificate issued or granted by it heretofore for like cause or for any fraud or deception committed in obtaining such certificate, or for any other cause which in the opinion of said board shall render the holder of such certificate an unfit

Board may administer oaths, summon witnesses, and compel production of books and papers.

person to practice medicine in this state. The members of said board are hereby severally authorized to administer oaths, and said board, in all cases or proceedings pending before it, is hereby authorized and empowered to summon witnesses by subpoena signed by the secretary of said board, and to compel such witnesses to attend and testify in the same manner as witnesses are compelled to appear and testify in either division of the supreme court; and said board is authorized to compel the production of all papers, books, documents, records, certificates, or other legal evidence that may be necessary or proper for the determination and decision of any question or the discharge of any duty required by law of said board, by issuing a subpoena *duces tecum*, signed by the secretary; and every person disobeying any such writ shall be considered as in contempt, and said board may punish any contempt of its authority in like manner as contempt may be punished by either division of the supreme court. Any person who shall willfully swear falsely in any proceeding, matter, or hearing before said board shall be deemed guilty of the crime of perjury. Said board shall serve a copy of its decision or ruling upon any person whose certificate has been refused or revoked. Any person aggrieved by any decision or ruling of said board may, within ten days after receiving said notice, exclusive of Sundays and legal holidays, take an appeal therefrom to the appellate division of the supreme court, sitting at Providence, and shall file therein his reasons of appeal, and serve a copy thereof on the secretary, or person performing the duties of secretary, of said board; and said appellate division of the supreme court shall, as soon as may be, hear and determine said appeal.

Contempt, how punished.

Perjury.

Appeals.

To whom this chapter does not apply.

SEC. 6. Nothing in this law shall be so construed as to discriminate against any particular school or system of medicine, or to prohibit gratuitous services in case of emergency; nor shall this chapter apply to com-

missioned surgeons of the United States army, navy, or marine hospital service, or to legally qualified physicians of another state, called to see a particular case, in consultation with a registered physician of this state, but who do not open an office or appoint any place in this state where they may meet patients or receive calls.

SEC. 7. Complaints for violation of the provisions of this chapter shall be made by the secretary of said board, and said secretary shall be exempt from giving surety for costs on any complaint made as aforesaid.

Prosecutions,  
secretary of  
state board of  
health not re-  
quired to give  
surety for  
costs.

SEC. 8. Any person who, not being then lawfully authorized to practice medicine within this state, and so registered according to law, shall practice medicine or surgery or attempt to practice medicine or surgery, or any of the branches of medicine or surgery, after having received therefor or with the intent of receiving therefor, either directly or indirectly, any bonus, gift, or compensation, or who shall open an office with intent to practice medicine, or shall hold himself out to the public as a practitioner of medicine, whether by appending to his name the title of doctor or any abbreviation thereof, or M. D., or any other title or designation implying a practitioner of medicine, or in any other way, shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be fined fifty dollars, and upon each and every subsequent conviction shall be fined one hundred dollars and imprisoned thirty days, either or both, in the discretion of the court; and in no case when any provision of this chapter has been violated shall the person so violating such provision be entitled to receive compensation for services rendered.

Penalties for  
practicing  
without certifi-  
cate.

## CHAPTER 287.

## OF MEDICAL EXAMINERS AND CORONERS.

SECTION 1. The governor shall appoint, in each county, able and discreet men, learned in the science of medicine, to be medical examiners in such county.

SEC. 2. The number of medical examiners appointed as provided in the preceding section shall be as follows:

For the county of Washington five examiners, one in each of the five following districts, viz.: District one, composed of the town of Westerly; district two, of the town of South Kingstown; district three, of the town of Hopkinton; district four, of the towns of North Kingstown and Exeter; district five, of the towns of Charlestown and Richmond.

For the county of Kent two examiners, one in each of the two following districts, viz.: District one, composed of the towns of West Greenwich and Coventry; district two, of the towns of East Greenwich and Warwick.

For the county of Providence eleven examiners, one in each of the first nine following districts, and in district ten two examiners, viz.: District one composed of the towns of Scituate and Foster; district two, of the towns of Cranston and Johnston; district three, of the town of Glocester; district four, of the towns of Smithfield and North Providence; district five, of the towns of Burrillville and North Smithfield; district six, of the city of Woonsocket; district seven, of the town of Cumberland; district eight, of the cities of Pawtucket and Central Falls and the town of Lincoln; district nine, of the town of East Providence; district ten, of the city of Providence.

For the county of Bristol two examiners, one in each of the following districts, viz.: District one, composed of the towns of Barrington and Warren; and district two, of the town of Bristol.

\*The number of medical examiners for the county of Newport shall be five, one in each of the first three districts and two in district four; and said districts shall be composed as follows: District one, of the towns of Tiverton and Little Compton; district two, the town of Portsmouth; district three, the town of New Shoreham; district four, the city of Newport and the towns of Middletown and Jamestown.

SEC. 3. If either of the medical examiners shall, at any time, from any cause, be unable to perform the duties of his said office, or shall be deemed by the attorney-general for any cause disqualified therefor, a medical examiner from an adjoining district may be called upon to perform them.

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\* As amended April 16, 1896.

SEC. 4. Every medical examiner shall hold his office for the term of six years, and until another is appointed and qualified to act in his place, unless sooner removed by the appointment of some other person to fill his place.

SEC. 5. Every medical examiner shall, within thirty days after his appointment, and before entering upon the duties of his office, give bond with surety to, and to the satisfaction of, the general treasurer in the sum of one thousand dollars for the faithful performance of his duties.

SEC. 6. If the condition of any such bond be broken, to the injury of any person, actions may be brought upon such bond as upon the official bonds of sheriffs.

SEC. 7. Medical examiners shall make examinations as hereinafter provided, upon bodies of such persons only as are supposed to have come to their death by violence: *Provided*, that in case any prisoner in the state prison or in any county jail dies while so imprisoned, it shall be the duty of the medical examiner of the district in which such prison or county jail is situated, upon being notified of the death of such prisoner, to make at once an examination upon the body of such deceased prisoner.

SEC. 8. When a medical examiner has notice that there has been found, or is lying, within his district the body of a person who is supposed to have come to his death by violence, he shall forthwith repair to the place where such body lies and take charge of the same; and if, on view thereof and personal inquiry into the cause and manner of the death, he deems a further examination necessary, he shall, upon being thereto authorized in writing by the attorney-general, or by the mayor of the city or president of the town council of the town where such body lies, make an autopsy in the presence of two or more discreet persons as witnesses, and shall then and there carefully reduce, or cause to be reduced, to writing every fact and circumstance tending to show the condition of the body and the cause and manner of death, together with the names and addresses of said witnesses, which record he shall subscribe. Before making such autopsy he shall call the attention of the witnesses to the position and appearance of the body.

SEC. 9. Should the medical examiner deem it advisable to have present a physician as one of the witnesses as aforesaid, such physician shall also subscribe the record made by the medical examiner, and for such service he shall receive a compensation of five dollars.

SEC. 10. Town councils shall select a suitable person to act as coroner for their respective towns, to hold his office for three years and until another is elected and qualified to act in his place, unless sooner removed by the election of some other person to fill his place.

SEC. 11. The coroners so elected shall have exclusive jurisdiction as coroners in their respective towns.

SEC. 12. The coroner shall appoint in writing, under his hand and seal, one or more discreet persons to act as his deputy in case of his absence or inability to act, who shall have all the powers of a coroner, and be subject to like pains and penalties, for malfeasance in office; and the coroner shall file a copy of the appointment in the town clerk's office of his town.

SEC. 13. The coroner may suspend or discharge a deputy. The suspension or discharge of a deputy shall be in writing, addressed to the deputy; and the coroner shall forthwith file a duplicate thereof in the town clerk's office of his town.

SEC. 14. Every coroner and deputy coroner shall, before entering upon the duties of his office, take the engagement prescribed in section five of chapter twenty-five.

SEC. 15. Whenever the coroner has notice that there is in his town any person who has been injured by the criminal act, omission, or carelessness of another, and that said person believes that his death is impending from such injury, said coroner may take the statement of such person concerning the manner in which, and the person by whom, such injury was inflicted; and the statement so taken shall be reduced to writing and, if practicable, in the presence of the injured person.

SEC. 16. If, upon such view, personal inquiry or autopsy, the medical examiner is of the opinion that the death was caused by the act or neglect of some person other than the deceased, he shall at once notify the attorney-general, and coroner of the town where the body was found, or in which it lies, and shall file a duly attested copy of the record of his autopsy, or view, with the said coroner and a like copy with the attorney-general; and shall in all cases certify to the officer having the custody of the records of deaths in the town in which the deceased came to his death, the name and residence of the person deceased, if known, or, when the name and residence cannot be ascertained, a description of the deceased, as full as possibly may be, for identification, together with the cause and manner by and in which he came to his death.

SEC. 17. The coroner shall thereupon hold an inquest, which may be private; in which case any or all persons, other than those required to be present by the provisions of this chapter, may be excluded from the place where such inquest is held, and such coroner may also direct the witnesses to be kept separate so that they cannot converse with each other until they have been examined. The attorney-general, or some person designated by him, may attend the inquest and examine all witnesses; and the coroner shall cause the testimony to be reduced to writing and signed by the witnesses. The attorney-general may, if he deem it necessary or expedient, direct an inquest to be held in the case of any casualty from which the death of a person results.



SEC. 18. The coroner may issue summons for witnesses, returnable before him. The persons served with such process shall be allowed the same fees, their attendance may be enforced in the same manner, and they shall be subject to the same penalties, as if served with a summons in behalf of the state in a criminal prosecution pending before a district court.

SEC. 19. The coroner shall, after hearing the testimony, draw up and sign a report, in which he shall find and certify when, where, and by what means the person deceased came to his death; his name, if known, and all material circumstances attending his death; and if it appears that his death resulted wholly or in part from the unlawful act of any other person, he shall further state the name of such person, if known to him, and he shall file such report, and the testimony by him taken, together with a copy of the record of the autopsy or view, in the office of the clerk of the court wherein an indictment for the offence may be found.

SEC. 20. The coroner shall bind such witnesses as he deems necessary, or as the attorney-general may designate, by recognizance in a reasonable sum, with sufficient surety, to personally appear, at such time as the coroner may designate, at the district court of the district wherein the inquest is held, and not depart therefrom until discharged by said court; and if any such witness shall refuse to recognize as aforesaid, the coroner shall commit such witness to the jail in the same county, there to remain until he shall so recognize or be otherwise discharged according to law.

SEC. 21. If the report of the coroner shall state that the death was caused by the unlawful act or by the gross carelessness of any other person, and by whose act the same was committed, he shall immediately make a complaint thereof against the person accused, in writing and on oath, to the justice or clerk of the district court in the district where the offence was committed, to the intent that the person killing or being in any way criminally instrumental to the death may be apprehended; but nothing herein contained shall be so construed as to prevent complaint being made at any time before the finding of the report. And the coroner shall forthwith, in writing, notify the attorney-general of the complaint aforesaid, that he may appear by himself or some person appointed by him, at the examination, and prosecute the claim in behalf of the state.

SEC. 22. If a medical examiner reports that a death was not caused by the act or neglect of some person other than the deceased, and the attorney-general is of a contrary opinion, the attorney-general may, notwithstanding such report, direct an inquest to be held in accordance with the provisions of this chapter; at which inquest he, or some other person designated by him, shall examine all the witnesses.

SEC. 23. The medical examiner may, if he deem it necessary, employ a



chemist to aid in the examination of the body, or of substances supposed to have caused or contributed to the death; and such chemist shall be entitled to such compensation for his services as the medical examiner certifies to be just and reasonable, the same being audited and allowed in the manner hereinafter provided.

SEC. 24. When a medical examiner views or makes an examination of the dead body of a stranger, he shall cause the body to be decently buried; and if he certifies that he has made careful inquiry, and that to the best of his knowledge and belief the person found dead is a stranger, having no settlement in any town of the state, his fees, with the actual expense of burial, shall be paid from the general treasury. In all other cases the expense of the burial shall be first paid by the town wherein the body is found, and such town may recover the money so paid from the town where such person last had a settlement: *Provided, however*, that the general treasurer, or any town, ultimately paying any such burial expenses, shall have the right to recover such burial expenses from the estate of the deceased person.

SEC. 25. When services are rendered in bringing to land the dead body of a person found in any of the harbors, rivers, or water of the state, the medical examiner may allow such compensation for such services as he deems reasonable; but this provision shall not entitle any person to compensation for services rendered in searching for a dead body.

SEC. 26. In all cases arising under the provisions of this chapter, the medical examiner shall take charge of any money or other personal property of the deceased, found upon or near the body, and shall deliver the same to the person entitled to its custody or possession; or if not claimed by such person within sixty days, then to an administrator, to be administered upon according to law.

SEC. 27. A medical examiner who fraudulently neglects or refuses to deliver any such property within three days, after demand upon him therefor, shall be imprisoned not exceeding two years or be fined not exceeding five hundred dollars.

SEC. 28. The fees of coroners shall, for the services specified in this chapter, be as follows, namely: For receiving and filing a duly attested copy of the record of an autopsy, fifty cents; for every page of two hundred words of written testimony, thirty cents; for each day's attendance in holding the inquest, five dollars; for the recognizance of witnesses, thirty-five cents; and for drawing up and filing a report in court, five dollars. Said fees having been audited by the state auditor, upon certificate of the attorney-general, shall be paid by the general treasurer.

SEC. 29. Each medical examiner shall receive fees as follows: For a view without an autopsy, four dollars; for a view and an autopsy, thirty dollars; and

for travel, at the rate of ten cents a mile to the place of view. He shall also have power, in case of an autopsy, to employ a clerk at an expense not exceeding three dollars per day for each day's actual service.

SEC. 30. Every medical examiner shall return an account of the expenses of each view or autopsy, including his fees, to the state auditor, and shall annex to his return the written authority under which the autopsy was made. The state auditor shall audit such account and certify to the general treasurer what items in such account are deemed just and reasonable, and such items shall be paid by said treasurer to the persons entitled to receive the same.

SEC. 31. Medical examiners shall, in the books provided by the secretary of state, keep a record of all views of bodies found dead, together with their view and autopsy reports, and, on the first of January, April, July, and October, shall forward to the secretary of the state board of health attested copies of such records of views, together with the view reports and conclusions from autopsies. Should the commission of service of a medical examiner expire before the end of a quarter, the said examiner shall at once forward to the said secretary of the state board of health the records and reports of all cases unreported at date of expiration of said service.

SEC. 32. For each and every copy of said records and reports forwarded to the said secretary of the state board of health, medical examiners shall receive twenty-five cents, which shall be paid by the state upon the voucher of said secretary of the state board of health that such copy of reports and records have been received by him.

SEC. 33. The secretary of the state board of health shall cause the returns received by him for each year, in accordance with this chapter, to be bound together with an index thereto; the state registrar shall prepare or cause to be prepared from the said returns such tabular results as will render them of practical utility, and shall make report thereof annually in connection with the report of births, marriages, and deaths required by chapter one hundred.



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FORTY-EIGHTH REPORT

RELATING TO THE

REGISTRY AND RETURN

OF

Births, Marriages, and Deaths,

AND OF DIVORCE,

IN THE

STATE OF RHODE ISLAND,

FOR THE

*YEAR ENDING DECEMBER 31, 1900.*

PREPARED BY

GARDNER T. SWARTS, M. D.,

STATE REGISTRAR OF VITAL STATISTICS ; SECRETARY OF THE STATE BOARD OF HEALTH ;  
COMMISSIONER OF PUBLIC HEALTH.

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PROVIDENCE :

E. L. FREEMAN & SONS, STATE PRINTERS.

1902.

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---

GARDNER T. SWARTS, *Secretary*.

## State of Rhode Island and Providence Plantations.

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PROVIDENCE, R. I., February 1, 1902.

*To the Honorable the General Assembly :*

The forty-eighth Annual Report upon the Registration of Births, Marriages, and Deaths in Rhode Island, and including judicial procedure in relation to divorce, during the year 1900, with compendary tables of the results of registration in the previous years, is herewith respectfully submitted.

The plan of the preceding years, in regard to the general arrangement of the tables, summaries, and comments, has been followed in this report, except that Table IX of the yearly report of causes of deaths has been re-adjusted to conform to the nomenclature of the so-called Bertillon system. Table X, giving the causes of deaths for forty-seven years, has been retained, since it is believed that it conforms more correctly to the present understood etiology of disease; and a duplicate table, conforming to the nomenclature of the Bertillon system, has been added.

The change to the Bertillon system was made under the assumption that the classification would be in conformity with a nomenclature which was issued by Cressy L. Wilbur, M. D., Chief of the Division of Vital Statistics of Michigan. Unfortunately, however, this original classification has been modified by the authorities having its re-adjustment.

The Registrar desires it to be understood that the Bertillon system is issued in this report, not because it is believed that it is satisfactory for the purpose intended, but in order that it may be in conformity with other registration reports which may have adopted the same classification, and to assist the statistician who is able to interpret its meaning.

The classification with its special headings will be found as an appendix to the report.

In the special tables the object has been to present the important facts of many years of registration, as well as of single years, in such manner as to make them readily apparent and relieve the reader of the statistics of much of the labor of personal examination of each of the general tables of the preceding reports for the purpose of ascertaining the relation the various facts bear to each other.

In previous reports the proportion of births, marriages, and deaths to the population has been estimated in various ways. For a few years the estimation was made upon the figures derived from the census taken in a given year, and the same number of population used each year until the next census was available. In other periods an estimate was made upon an arithmetical increase. The present issue, however, gives all estimates in proportion to population by geometrical ratio, and which gives a more rational uniform increase than has been previously observed. This is seen in Table XVI.

Under the class of Zymotic Diseases we have previously had Miasmatic Diseases as Order, or Group, One; and Enthetic Diseases as Order, or Group, Two. As the word Miasmatic is inappropriate at the present day to such diseases as diphtheria, measles, and scarlet fever, and as these are, with many other, dependent upon the introduction into the system of a morbid material, they are, therefore, contagious or infectious. As some controversy is liable to arise as to the preference in use of either of these terms, it has been thought desirable to use the word Communicable, which will include both. In this group have been gathered all diseases acknowledged to be dependent upon the presence of some morbid entity which in some instances has been demonstrated to be due to a micro-organism, while with others it is assumed by analogy to these conditions that they may be due to the same cause.

A more extended explanation of the reclassification of these diseases will be found under Names of Causes of Death, in Appendix A, page 297 of this report.

Respectfully,

GARDNER T. SWARTS,

*State Registrar.*

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REPORT UPON THE REGISTRATION

OF

BIRTHS, MARRIAGES, AND DEATHS

IN

RHODE ISLAND,

FOR

THE YEAR ENDING DECEMBER 31, 1900,

AND

FOR VARIOUS YEARS FROM 1853 TO 1900,

INCLUSIVE.

TABLE I.

*General Summary of Births and Marriages in the State of Rhode Island during the year 1900.*

| TOWNS<br>AND DIVISIONS OF THE<br>STATE. | BIRTHS.       |        |          |            |          |                                   |                                   | MARRIAGES.    |           |          |                                 |                                 |
|-----------------------------------------|---------------|--------|----------|------------|----------|-----------------------------------|-----------------------------------|---------------|-----------|----------|---------------------------------|---------------------------------|
|                                         | Whole Number. | SEX.   |          | PARENTAGE. |          |                                   |                                   | Whole Number. | NATIVITY. |          |                                 |                                 |
|                                         |               | Males. | Females. | Native.    | Foreign. | Native Father,<br>Foreign Mother. | Foreign Father,<br>Native Mother. |               | Native.   | Foreign. | Native Groom,<br>Foreign Bride. | Foreign Groom,<br>Native Bride. |
| Barrington.....                         | 22            | 13     | 9        | 3          | 17       | 2                                 | .....                             | 11            | 7         | 1        | 1                               | 2                               |
| Bristol.....                            | 154           | 86     | 68       | 48         | 57       | 31                                | 18                                | 37            | 22        | 6        | 6                               | 3                               |
| Warren.....                             | 185           | 94     | 91       | 26         | 122      | 16                                | 21                                | 37            | 15        | 13       | 6                               | 3                               |
| BRISTOL COUNTY.....                     | 361           | 193    | 168      | 77         | 196      | 49                                | 39                                | 85            | 44        | 20       | 13                              | 8                               |
| Coventry.....                           | 133           | 66     | 67       | 59         | 54       | 9                                 | 11                                | 26            | 23        | 2        | .....                           | 1                               |
| East Greenwich.....                     | 18            | 9      | 9        | 11         | 5        | 1                                 | 1                                 | 17            | 12        | 1        | 1                               | 3                               |
| West Greenwich.....                     | 12            | 5      | 7        | 12         | .....    | .....                             | .....                             | 1             | 1         | .....    | .....                           | .....                           |
| Warwick.....                            | 713           | 360    | 353      | 171        | 380      | 71                                | 91                                | 191           | 78        | 61       | 26                              | 26                              |
| KENT COUNTY.....                        | 876           | 440    | 436      | 253        | 439      | 81                                | 103                               | 235           | 114       | 64       | 27                              | 30                              |
| Jamestown.....                          | 15            | 8      | 7        | 9          | 5        | 1                                 | .....                             | 3             | 3         | .....    | .....                           | .....                           |
| Little Compton.....                     | 21            | 11     | 10       | 15         | 4        | 1                                 | 1                                 | 5             | 2         | 1        | .....                           | 2                               |
| Middletown.....                         | 32            | 15     | 18       | 15         | 18       | .....                             | .....                             | 1             | .....     | 1        | .....                           | .....                           |
| Newport City.....                       | 599           | 319    | 280      | 230        | 257      | 56                                | 56                                | 206           | 97        | 49       | 26                              | 34                              |
| New Shoreham.....                       | 13            | 7      | 6        | 10         | 2        | 1                                 | .....                             | 10            | 9         | .....    | .....                           | 1                               |
| Portsmouth.....                         | 37            | 22     | 15       | 15         | 20       | 1                                 | 1                                 | 14            | 13        | 1        | .....                           | .....                           |
| Tiverton.....                           | 66            | 34     | 32       | 22         | 30       | 10                                | 4                                 | 18            | 9         | 3        | 6                               | .....                           |
| NEWPORT COUNTY...                       | 784           | 416    | 368      | 316        | 336      | 70                                | 62                                | 257           | 133       | 55       | 32                              | 37                              |
| Burrillville.....                       | 131           | 72     | 59       | 35         | 54       | 16                                | 26                                | 35            | 18        | 7        | 6                               | 4                               |
| CENTRAL FALLS.....                      | 610           | 295    | 315      | 118        | 363      | 57                                | 72                                | 161           | 49        | 55       | 30                              | 27                              |
| Cranston.....                           | 280           | 143    | 137      | 117        | 126      | 18                                | 19                                | 66            | 38        | 14       | 9                               | 5                               |
| Cumberland.....                         | 236           | 120    | 116      | 52         | 130      | 22                                | 32                                | 60            | 20        | 19       | 10                              | 11                              |
| East Providence.....                    | 252           | 128    | 124      | 122        | 81       | 21                                | 28                                | 73            | 55        | 5        | 5                               | 8                               |
| Foster.....                             | 15            | 11     | 4        | 14         | .....    | .....                             | .....                             | 10            | 10        | .....    | .....                           | .....                           |
| Glocester.....                          | 23            | 8      | 15       | 19         | 3        | .....                             | .....                             | 11            | 11        | .....    | .....                           | .....                           |
| Johnston.....                           | 149           | 85     | 64       | 20         | 106      | 10                                | 13                                | 12            | 6         | 5        | 1                               | .....                           |
| Lincoln.....                            | 254           | 123    | 131      | 19         | 178      | 23                                | 34                                | 57            | 11        | 29       | 10                              | 7                               |
| North Providence.....                   | 59            | 30     | 29       | 14         | 33       | 6                                 | 6                                 | 6             | 3         | 1        | 1                               | 1                               |
| North Smithfield.....                   | 55            | 25     | 30       | 15         | 28       | 7                                 | 5                                 | 19            | 9         | 4        | 3                               | 3                               |
| PAWTUCKET.....                          | 1,025         | 502    | 523      | 315        | 462      | 123                               | 125                               | 418           | 162       | 128      | 59                              | 69                              |
| PROVIDENCE CITY.....                    | 4,503         | 2,301  | 2,202    | 1,362      | 2,318    | 411                               | 412                               | 1,900         | 843       | 608      | 230                             | 219                             |
| Scituate.....                           | 56            | 23     | 33       | 44         | 7        | 4                                 | 1                                 | 18            | 16        | 2        | .....                           | .....                           |
| Smithfield.....                         | 53            | 38     | 15       | 25         | 22       | 3                                 | 3                                 | 19            | 9         | 7        | 1                               | 2                               |
| WOONSOCKET.....                         | 960           | 469    | 491      | 176        | 544      | 122                               | 118                               | 283           | 87        | 116      | 47                              | 33                              |
| PROVIDENCE COUNTY.                      | 8,661         | 4,373  | 4,288    | 2,467      | 4,455    | 843                               | 896                               | 3,148         | 1,347     | 1,000    | 412                             | 389                             |
| Charlestown.....                        | 16            | 6      | 10       | 10         | 1        | 2                                 | 3                                 | 3             | 3         | .....    | .....                           | .....                           |
| Exeter.....                             | 8             | 2      | 6        | 8          | .....    | .....                             | .....                             | 9             | 8         | .....    | 1                               | .....                           |
| Hopkinton.....                          | 48            | 26     | 22       | 37         | 4        | 6                                 | 1                                 | 28            | 24        | 1        | 1                               | 2                               |
| Narragansett.....                       | 20            | 11     | 9        | 11         | 6        | 1                                 | 2                                 | 10            | 8         | 1        | .....                           | 1                               |
| North Kingstown.....                    | 68            | 33     | 35       | 52         | 5        | 6                                 | 5                                 | 26            | 23        | .....    | .....                           | 2                               |
| South Kingstown.....                    | 74            | 39     | 35       | 63         | 3        | 5                                 | 3                                 | 43            | 33        | 2        | 3                               | 5                               |
| Richmond.....                           | 25            | 15     | 10       | 19         | 5        | 1                                 | .....                             | 4             | 4         | .....    | .....                           | .....                           |
| Westerly.....                           | 143           | 71     | 72       | 75         | 49       | 14                                | 5                                 | 88            | 59        | 13       | 9                               | 7                               |
| WASHINGTON COUNTY                       | 402           | 203    | 199      | 275        | 73       | 35                                | 19                                | 241           | 162       | 17       | 15                              | 17                              |

\* State institutions not included.

TABLE I.—Continued.

*General Summary of Deaths in the State of Rhode Island during the year 1900.*

| DEATHS.       |        |          |           |          |             |          |                         |          |                       |          |                 |              |
|---------------|--------|----------|-----------|----------|-------------|----------|-------------------------|----------|-----------------------|----------|-----------------|--------------|
| Whole Number. | SEX.   |          | NATIVITY. |          | AGES GIVEN. |          | AGGREGATE AGE IN YEARS. |          | AVERAGE AGE IN YEARS. |          | Aggregate Ages. | Average Age. |
|               | Males. | Females. | Native.   | Foreign. | Males.      | Females. | Males.                  | Females. | Males.                | Females. |                 |              |
|               |        |          |           |          |             |          |                         |          |                       |          |                 |              |
| 21            | 14     | 7        | 17        | 4        | 14          | 7        | 468                     | 213      | 33.43                 | 30.43    | 681.            | 32.43        |
| 170           | 94     | 76       | 140       | 30       | 94          | 76       | 3,573                   | 2,907    | 38.01                 | 38.25    | 6,480           | 38.12        |
| 106           | 47     | 59       | 73        | 33       | 47          | 59       | 1,213                   | 2,336    | 25.81                 | 39.59    | 3,549           | 33.48        |
| 297           | 155    | 142      | 230       | 67       | 155         | 142      | 5,234                   | 5,456    | 33.89                 | 38.42    | 10,710          | 36.06        |
| 105           | 46     | 59       | 91        | 14       | 46          | 59       | 1,538                   | 2,521    | 33.13                 | 42.73    | 4,059           | 38.65        |
| 70            | 34     | 36       | 57        | 13       | 34          | 36       | 1,390                   | 1,581    | 40.88                 | 44.00    | 2,974           | 42.48        |
| 18            | 6      | 12       | 17        | 1        | 6           | 12       | 258                     | 522      | 43.00                 | 43.50    | 780             | 43.33        |
| 515           | 251    | 264      | 398       | 117      | 249         | 263      | 5,648                   | 7,557    | 22.68                 | 28.73    | 13,205          | 25.79        |
| 708           | 337    | 371      | 563       | 145      | 335         | 370      | 8,834                   | 12,184   | 26.37                 | 32.93    | 21,018          | 29.81        |
| 19            | 9      | 10       | 17        | 2        | 9           | 10       | 135                     | 430      | 15.00                 | 43.00    | 565             | 29.74        |
| 27            | 13     | 14       | 27        | .....    | 13          | 14       | 588                     | 746      | 45.23                 | 53.28    | 1,334           | 49.41        |
| 22            | 9      | 13       | 20        | 2        | 9           | 13       | 217                     | 744      | 24.11                 | 57.23    | 961             | 43.68        |
| 423           | 229    | 194      | 341       | 82       | 226         | 193      | 7,418                   | 8,213    | 32.82                 | 42.55    | 15,631          | 36.95        |
| 33            | 10     | 23       | 33        | .....    | 10          | 23       | 535                     | 1,309    | 53.50                 | 56.91    | 1,844           | 55.88        |
| 34            | 22     | 12       | 30        | 4        | 22          | 12       | 1,076                   | 561      | 48.91                 | 46.75    | 1,637           | 48.15        |
| 52            | 24     | 28       | 41        | 11       | 24          | 28       | 941                     | 916      | 39.21                 | 32.71    | 1,857           | 35.71        |
| 610           | 316    | 294      | 509       | 101      | 313         | 293      | 10,910                  | 12,919   | 34.86                 | 41.09    | 23,829          | 39.06        |
| 111           | 57     | 54       | 76        | 35       | 57          | 54       | 2,038                   | 2,076    | 35.75                 | 38.41    | 4,114           | 37.06        |
| 352           | 179    | 173      | 198       | 154      | 179         | 173      | 3,886                   | 5,203    | 21.71                 | 30.07    | 9,089           | 25.82        |
| 188           | 98     | 90       | 151       | 37       | 98          | 90       | 3,091                   | 3,197    | 31.54                 | 35.52    | 6,288           | 33.45        |
| 154           | 77     | 77       | 97        | 57       | 76          | 75       | 1,780                   | 1,492    | 23.42                 | 19.89    | 3,272           | 21.67        |
| 211           | 102    | 109      | 166       | 45       | 102         | 108      | 5,953                   | 3,851    | 38.75                 | 35.66    | 9,804           | 37.16        |
| 19            | 11     | 8        | 19        | .....    | 11          | 8        | 650                     | 440      | 59.09                 | 55.00    | 1,090           | 57.37        |
| 32            | 13     | 19       | 28        | 4        | 13          | 19       | 833                     | 931      | 64.08                 | 49.00    | 1,764           | 55.12        |
| 70            | 35     | 35       | 53        | 17       | 35          | 35       | 1,026                   | 1,201    | 29.31                 | 34.31    | 2,227           | 31.81        |
| 148           | 79     | 69       | 98        | 50       | 79          | 69       | 1,602                   | 1,910    | 20.28                 | 27.68    | 3,512           | 23.73        |
| 42            | 21     | 21       | 33        | 9        | 21          | 21       | 582                     | 626      | 27.71                 | 29.81    | 1,208           | 28.76        |
| 39            | 25     | 14       | 27        | 12       | 25          | 14       | 1,071                   | 170      | 42.84                 | 33.57    | 1,541           | 39.51        |
| 792           | 387    | 405      | 527       | 265      | 387         | 405      | 11,068                  | 14,558   | 28.60                 | 35.91    | 25,626          | 32.36        |
| 3,678         | 1,865  | 1,813    | 2,554     | 1,124    | 1,865       | 1,813    | 57,376                  | 64,046   | 30.76                 | 35.33    | 121,422         | 33.01        |
| 69            | 31     | 35       | 63        | 6        | 34          | 35       | 1,746                   | 1,698    | 51.35                 | 48.51    | 3,441           | 49.91        |
| 54            | 28     | 26       | 48        | 6        | 28          | 26       | 1,174                   | 1,070    | 41.93                 | 41.15    | 2,244           | 41.55        |
| 556           | 253    | 303      | 374       | 182      | 253         | 303      | 5,304                   | 6,853    | 29.96                 | 22.62    | 12,157          | 21.86        |
| 6,515         | 3,264  | 3,251    | 4,512     | 2,003    | 3,263       | 3,248    | 99,180                  | 109,622  | 30.40                 | 33.75    | 208,802         | 32.07        |
| 17            | 6      | 11       | 17        | .....    | 6           | 11       | 241                     | 723      | 40.17                 | 65.72    | 964             | 56.71        |
| 18            | 7      | 11       | 17        | 1        | 7           | 11       | 480                     | 557      | 68.57                 | 50.61    | 1,037           | 57.61        |
| 44            | 28     | 16       | 41        | 3        | 28          | 16       | 1,395                   | 857      | 49.82                 | 53.56    | 2,252           | 51.18        |
| 20            | 11     | 9        | 19        | 1        | 11          | 9        | 302                     | 317      | 27.45                 | 35.22    | 619             | 30.95        |
| 72            | 33     | 39       | 67        | 5        | 33          | 39       | 1,290                   | 1,950    | 39.09                 | 50.00    | 3,240           | 45.00        |
| 99            | 47     | 52       | 90        | 9        | 47          | 52       | 1,865                   | 2,385    | 39.68                 | 45.86    | 4,250           | 42.92        |
| 28            | 17     | 11       | 27        | 1        | 17          | 11       | 685                     | 591      | 40.29                 | 53.73    | 1,276           | 45.57        |
| 141           | 85     | 56       | 111       | 30       | 85          | 56       | 3,200                   | 2,658    | 37.65                 | 47.46    | 5,858           | 41.55        |
| 439           | 234    | 205      | 389       | 50       | 234         | 205      | 9,458                   | 10,038   | 40.42                 | 48.96    | 19,496          | 41.41        |



TABLE I.—Continued.—RECAPITULATION.

*General Summary of Births and Marriages in the State of Rhode Island during the year 1900.*

| COUNTIES.               | BIRTHS.       |        |          |            |          |                                   |                                   | MARRIAGES.    |           |          |                                 |                                 |
|-------------------------|---------------|--------|----------|------------|----------|-----------------------------------|-----------------------------------|---------------|-----------|----------|---------------------------------|---------------------------------|
|                         | Whole Number. | SEX.   |          | PARENTAGE. |          |                                   |                                   | Whole Number. | NATIVITY. |          |                                 |                                 |
|                         |               | Males. | Females. | Native.    | Foreign. | Native Father.<br>Foreign Mother. | Foreign Father.<br>Native Mother. |               | Native.   | Foreign. | Native Groom.<br>Foreign Bride. | Foreign Groom.<br>Native Bride. |
| BRISTOL.....            | 361           | 193    | 168      | 77         | 196      | 49                                | 39                                | 85            | 44        | 20       | 13                              | 8                               |
| KENT.....               | 876           | 440    | 436      | 253        | 439      | 81                                | 103                               | 235           | 114       | 64       | 27                              | 30                              |
| NEWPORT.....            | 784           | 416    | 368      | 316        | 336      | 70                                | 62                                | 257           | 133       | 55       | 32                              | 37                              |
| PROVIDENCE.....         | 8,661         | 4,373  | 4,288    | 2,467      | 4,455    | 813                               | 896                               | 3,148         | 1,347     | 1,000    | 412                             | 389                             |
| WASHINGTON.....         | 402           | 203    | 199      | 275        | 73       | 35                                | 19                                | 211           | 162       | 17       | 15                              | 17                              |
| STATE INSTITUTIONS..... | .....         | .....  | .....    | .....      | .....    | .....                             | .....                             | .....         | .....     | .....    | .....                           | .....                           |
| WHOLE STATE. ....       | 11,084        | 5,625  | 5,459    | 3,388      | 5,499    | 1,078                             | 1,119                             | 3,936         | 1,800     | 1,156    | 499                             | 481                             |

TABLE I.—Concluded.—RECAPITULATION.

*General Summary of Deaths in the State of Rhode Island, by Counties, during the year 1900.*

| DEATHS.       |        |          |           |          |             |          |                         |          |                       |          |                 |              |
|---------------|--------|----------|-----------|----------|-------------|----------|-------------------------|----------|-----------------------|----------|-----------------|--------------|
| Whole Number. | SEX.   |          | NATIVITY. |          | AGES GIVEN. |          | AGGREGATE AGE IN YEARS. |          | AVERAGE AGE IN YEARS. |          | Aggregate Ages. | Average Age. |
|               | Males. | Females. | Native.   | Foreign. | Males.      | Females. | Males.                  | Females. | Males.                | Females. |                 |              |
| 297           | 155    | 142      | 230       | 67       | 155         | 142      | 5,254                   | 5,456    | 33.89                 | 38.42    | 10,710          | 36.06        |
| 708           | 337    | 371      | 563       | 145      | 335         | 370      | 8,834                   | 12,184   | 26.37                 | 32.93    | 21,018          | 29.81        |
| 610           | 316    | 294      | 509       | 101      | 313         | 293      | 10,910                  | 12,919   | 34.86                 | 44.09    | 23,829          | 39.06        |
| 6,515         | 3,264  | 3,251    | 4,512     | 2,003    | 3,263       | 3,248    | 90,180                  | 109,622  | 30.40                 | 33.75    | 208,802         | 32.07        |
| 439           | 234    | 205      | 389       | 50       | 234         | 205      | 9,458                   | 10,038   | 40.42                 | 48.96    | 19,496          | 44.41        |
| 254           | 167    | 87       | 145       | 109      | 166         | 87       | 8,431                   | 4,398    | 50.79                 | 50.55    | 12,829          | 50.71        |
| 8,823         | 4,473  | 4,350    | 6,348     | 2,475    | 4,466       | 4,345    | 142,067                 | 154,617  | 31.81                 | 35.58    | 296,684         | 33.67        |

TABLE II.—BIRTHS, 1900.

*Arranged by Months, Sexes, and Divisions of the State.*

| MONTHS.       | SEX.       | Whole State. | DIVISIONS OF THE STATE. |              |                       |               |                          |                |            |                  |             |                    |
|---------------|------------|--------------|-------------------------|--------------|-----------------------|---------------|--------------------------|----------------|------------|------------------|-------------|--------------------|
|               |            |              | Bristol County.         | Kent County. | Newport County Towns. | Newport City. | Providence County Towns. | Central Falls. | Pawtucket. | Providence City. | Woonsocket. | Washington County. |
| January.....  | Males....  | 454          | 17                      | 33           | 7                     | 40            | 70                       | 18             | 34         | 183              | 38          | 14                 |
|               | Females..  | 447          | 14                      | 33           | 5                     | 26            | 77                       | 25             | 47         | 167              | 38          | 15                 |
|               | Total..... | 901          | 31                      | 66           | 12                    | 66            | 147                      | 43             | 81         | 350              | 76          | 29                 |
| February. ... | Males....  | 447          | 15                      | 28           | 15                    | 25            | 65                       | 26             | 36         | 180              | 41          | 16                 |
|               | Females..  | 437          | 12                      | 30           | 6                     | 26            | 67                       | 28             | 53         | 165              | 35          | 15                 |
|               | Total..... | 884          | 27                      | 58           | 21                    | 51            | 132                      | 54             | 89         | 345              | 76          | 31                 |
| March.... ... | Males....  | 516          | 16                      | 25           | 14                    | 29            | 65                       | 34             | 44         | 225              | 47          | 17                 |
|               | Females..  | 435          | 8                       | 33           | 8                     | 21            | 53                       | 24             | 45         | 189              | 40          | 14                 |
|               | Total..... | 951          | 24                      | 58           | 22                    | 50            | 118                      | 58             | 89         | 414              | 87          | 31                 |
| April.....    | Males....  | 445          | 12                      | 40           | 6                     | 23            | 64                       | 27             | 44         | 171              | 33          | 25                 |
|               | Females..  | 412          | 9                       | 39           | 6                     | 16            | 46                       | 24             | 48         | 167              | 39          | 18                 |
|               | Total..... | 857          | 21                      | 79           | 12                    | 39            | 110                      | 51             | 92         | 338              | 72          | 43                 |
| May.... ..    | Males....  | 405          | 20                      | 32           | 2                     | 28            | 61                       | 15             | 42         | 156              | 36          | 13                 |
|               | Females..  | 416          | 14                      | 25           | 11                    | 23            | 60                       | 26             | 32         | 172              | 37          | 16                 |
|               | Total..... | 821          | 34                      | 57           | 13                    | 51            | 121                      | 41             | 74         | 328              | 73          | 29                 |
| June .....    | Males....  | 472          | 13                      | 39           | 11                    | 18            | 76                       | 21             | 38         | 197              | 40          | 19                 |
|               | Females..  | 431          | 20                      | 41           | 8                     | 22            | 54                       | 26             | 40         | 159              | 45          | 16                 |
|               | Total..... | 903          | 33                      | 80           | 19                    | 40            | 130                      | 47             | 78         | 356              | 85          | 35                 |
| July.... ..   | Males....  | 458          | 12                      | 31           | 6                     | 26            | 59                       | 27             | 45         | 200              | 36          | 16                 |
|               | Females..  | 519          | 15                      | 40           | 12                    | 23            | 75                       | 28             | 44         | 204              | 56          | 22                 |
|               | Total..... | 977          | 27                      | 71           | 18                    | 49            | 134                      | 55             | 89         | 404              | 92          | 38                 |

TABLE II.—BIRTHS.—Concluded.

*Arranged by Months, Sexes, and Divisions of the State.*

| MONTHS.        | SEX.       | Whole State. | DIVISIONS OF THE STATE. |              |                       |               |                          |                |            |                  |             |                    |  |
|----------------|------------|--------------|-------------------------|--------------|-----------------------|---------------|--------------------------|----------------|------------|------------------|-------------|--------------------|--|
|                |            |              | Bristol County.         | Kent County. | Newport County Towns. | Newport City. | Providence County Towns. | Central Falls. | Pawtucket. | Providence City. | Woonsocket. | Washington County. |  |
| August. ....   | Males .... | 520          | 16                      | 34           | 10                    | 31            | 88                       | 33             | 54         | 194              | 46          | 14                 |  |
|                | Females..  | 502          | 9                       | 53           | 6                     | 22            | 63                       | 36             | 43         | 199              | 54          | 17                 |  |
|                | Total..... | 1,022        | 25                      | 87           | 16                    | 53            | 151                      | 69             | 97         | 393              | 100         | 31                 |  |
| September .... | Males .... | 467          | 18                      | 30           | 7                     | 25            | 62                       | 25             | 39         | 200              | 42          | 19                 |  |
|                | Females..  | 455          | 12                      | 31           | 9                     | 16            | 79                       | 22             | 28         | 203              | 46          | 9                  |  |
|                | Total..... | 922          | 30                      | 61           | 16                    | 41            | 141                      | 47             | 67         | 403              | 88          | 28                 |  |
| October.....   | Males .... | 482          | 16                      | 48           | 4                     | 24            | 65                       | 19             | 39         | 205              | 41          | 21                 |  |
|                | Females..  | 494          | 13                      | 39           | 6                     | 21            | 69                       | 26             | 49         | 209              | 42          | 20                 |  |
|                | Total..... | 976          | 29                      | 87           | 10                    | 45            | 134                      | 45             | 88         | 414              | 83          | 41                 |  |
| November ....  | Males .... | 471          | 16                      | 40           | 6                     | 25            | 57                       | 26             | 50         | 199              | 36          | 16                 |  |
|                | Females..  | 453          | 25                      | 26           | 6                     | 36            | 66                       | 24             | 44         | 181              | 28          | 17                 |  |
|                | Total..... | 924          | 41                      | 66           | 12                    | 61            | 123                      | 50             | 94         | 380              | 64          | 33                 |  |
| December.....  | Males .... | 488          | 22                      | 60           | 9                     | 25            | 74                       | 24             | 37         | 191              | 33          | 13                 |  |
|                | Females..  | 458          | 17                      | 46           | 5                     | 28            | 48                       | 26             | 50         | 187              | 31          | 20                 |  |
|                | Total..... | 946          | 39                      | 106          | 14                    | 53            | 122                      | 50             | 87         | 378              | 64          | 33                 |  |
| Whole Year...  | Males .... | 5,625        | 193                     | 440          | 97                    | 319           | 806                      | 295            | 502        | 2,301            | 469         | 203                |  |
|                | Females..  | 5,459        | 168                     | 436          | 88                    | 280           | 757                      | 315            | 523        | 2,202            | 491         | 199                |  |
|                | Total..... | 11,084       | 361                     | 876          | 185                   | 599           | 1,563                    | 610            | 1,025      | 4,503            | 960         | 402                |  |



TABLE IV.—MARRIAGES, 1900.

*Arranged by Months and Divisions of the State.*

| MONTHS.             | Whole State, 1900. | DIVISIONS OF THE STATE. |              |                       |               |                          |                |            |                  |             |                    | Whole State, 1899. |
|---------------------|--------------------|-------------------------|--------------|-----------------------|---------------|--------------------------|----------------|------------|------------------|-------------|--------------------|--------------------|
|                     |                    | Bristol County.         | Kent County. | Newport County Towns. | Newport City. | Providence County Towns. | Central Falls. | Pawtucket. | Providence City. | Woonsocket. | Washington County. |                    |
| January.....        | 326                | 7                       | 23           | 3                     | 15            | 31                       | 13             | 42         | 158              | 23          | 11                 | 262                |
| February.....       | 308                | 7                       | 23           | 4                     | 15            | 21                       | 18             | 38         | 145              | 24          | 13                 | 221                |
| March.....          | 129                | 2                       | 5            | 4                     | 10            | 12                       | 3              | 10         | 61               | 10          | 12                 | 131                |
| First Quarter.....  | 763                | 16                      | 51           | 11                    | 40            | 64                       | 34             | 90         | 364              | 57          | 36                 | 614                |
| April.....          | 331                | 3                       | 19           | 3                     | 13            | 33                       | 12             | 32         | 182              | 22          | 12                 | 360                |
| May.....            | 255                | 4                       | 20           | 4                     | 5             | 29                       | 13             | 24         | 120              | 21          | 15                 | 203                |
| June.....           | 527                | 20                      | 21           | 6                     | 26            | 52                       | 24             | 60         | 261              | 35          | 22                 | 406                |
| Second Quarter..... | 1,113              | 27                      | 60           | 13                    | 44            | 114                      | 49             | 116        | 563              | 78          | 49                 | 969                |
| July.....           | 277                | 5                       | 25           | 4                     | 15            | 27                       | 14             | 30         | 123              | 22          | 12                 | 213                |
| August.....         | 281                | 8                       | 21           | 6                     | 15            | 23                       | 7              | 30         | 137              | 19          | 15                 | 267                |
| September.....      | 394                | 7                       | 19           | 4                     | 24            | 47                       | 20             | 35         | 185              | 24          | 20                 | 322                |
| Third Quarter.....  | 952                | 20                      | 65           | 14                    | 54            | 97                       | 41             | 95         | 445              | 65          | 56                 | 802                |
| October.....        | 409                | 11                      | 22           | 3                     | 30            | 49                       | 16             | 44         | 180              | 37          | 17                 | 385                |
| November.....       | 434                | 6                       | 22           | 5                     | 22            | 38                       | 16             | 47         | 221              | 30          | 27                 | 448                |
| December.....       | 265                | 5                       | 15           | 5                     | 16            | 24                       | 5              | 26         | 127              | 16          | 26                 | 215                |
| Fourth Quarter..... | 1,108              | 22                      | 59           | 13                    | 68            | 111                      | 37             | 117        | 528              | 83          | 70                 | 1,048              |
| Whole Year.....     | 3,936              | 85                      | 235          | 51                    | 206           | 386                      | 161            | 418        | 1,900            | 283         | 211                | 3,433              |



TABLE V.—DEATHS, 1900.

*Arranged by Months, Sexes, and Divisions of the State.*

| MONTHS.         | SEX.       | Whole State. | DIVISIONS OF THE STATE. |              |                       |               |                          |                |            |                  |             |                    | State Institutions. |
|-----------------|------------|--------------|-------------------------|--------------|-----------------------|---------------|--------------------------|----------------|------------|------------------|-------------|--------------------|---------------------|
|                 |            |              | Bristol County.         | Kent County. | Newport County Towns. | Newport City. | Providence County Towns. | Central Falls. | Pawtucket. | Providence City. | Woonsocket. | Washington County. |                     |
| January.....    | Males..... | 371          | 13                      | 17           | 6                     | 20            | 47                       | 6              | 28         | 175              | 19          | 26                 | 14                  |
|                 | Females... | 362          | 11                      | 28           | 8                     | 15            | 46                       | 9              | 31         | 174              | 16          | 19                 | 5                   |
|                 | Total..... | 733          | 24                      | 45           | 14                    | 35            | 93                       | 15             | 59         | 349              | 35          | 45                 | 19                  |
| February.....   | Males..... | 382          | 12                      | 29           | 4                     | 22            | 67                       | 14             | 36         | 150              | 18          | 22                 | 8                   |
|                 | Females... | 370          | 10                      | 38           | 3                     | 12            | 53                       | 11             | 34         | 163              | 19          | 25                 | 2                   |
|                 | Total..... | 752          | 22                      | 67           | 7                     | 34            | 120                      | 25             | 70         | 313              | 37          | 47                 | 10                  |
| March . . . . . | Males..... | 458          | 11                      | 30           | 8                     | 18            | 64                       | 21             | 38         | 216              | 18          | 21                 | 13                  |
|                 | Females... | 457          | 17                      | 35           | 10                    | 18            | 68                       | 15             | 41         | 198              | 27          | 22                 | 6                   |
|                 | Total..... | 915          | 28                      | 65           | 18                    | 36            | 132                      | 36             | 79         | 414              | 45          | 43                 | 19                  |
| April.....      | Males..... | 465          | 13                      | 46           | 11                    | 20            | 58                       | 15             | 44         | 195              | 25          | 21                 | 17                  |
|                 | Females... | 523          | 10                      | 61           | 19                    | 28            | 57                       | 17             | 49         | 224              | 28          | 20                 | 10                  |
|                 | Total..... | 988          | 23                      | 107          | 30                    | 48            | 115                      | 32             | 93         | 419              | 53          | 41                 | 27                  |
| May .....       | Males..... | 342          | 11                      | 26           | 5                     | 21            | 37                       | 11             | 27         | 156              | 15          | 19                 | 14                  |
|                 | Females... | 303          | 9                       | 23           | 7                     | 20            | 35                       | 10             | 30         | 137              | 13          | 11                 | 8                   |
|                 | Total..... | 645          | 20                      | 49           | 12                    | 41            | 72                       | 21             | 57         | 293              | 28          | 30                 | 22                  |
| June.....       | Males..... | 292          | 8                       | 19           | 8                     | 17            | 32                       | 8              | 22         | 126              | 18          | 17                 | 17                  |
|                 | Females... | 295          | 10                      | 27           | 5                     | 13            | 27                       | 17             | 19         | 135              | 22          | 16                 | 4                   |
|                 | Total..... | 587          | 18                      | 46           | 13                    | 30            | 59                       | 25             | 41         | 261              | 40          | 33                 | 21                  |
| July .....      | Males..... | 418          | 15                      | 31           | 6                     | 15            | 56                       | 30             | 36         | 166              | 27          | 14                 | 22                  |
|                 | Females... | 405          | 13                      | 26           | 13                    | 16            | 47                       | 14             | 51         | 160              | 49          | 10                 | 6                   |
|                 | Total..... | 823          | 28                      | 57           | 19                    | 31            | 103                      | 44             | 87         | 326              | 76          | 24                 | 28                  |

TABLE V.—DEATHS.—Concluded.

*Arranged by Months, Sexes, and Divisions of the State.*

| MONTHS.       | SEX.       | Whole State. | DIVISIONS OF THE STATE. |              |                       |               |                          |                |            |                  |             |                    |     | State Institutions. |
|---------------|------------|--------------|-------------------------|--------------|-----------------------|---------------|--------------------------|----------------|------------|------------------|-------------|--------------------|-----|---------------------|
|               |            |              | Bristol County.         | Kent County. | Newport County Towns. | Newport City. | Providence County Towns. | Central Falls. | Pawtucket. | Providence City. | Woonsocket. | Washington County. |     |                     |
| August .....  | Males..... | 451          | 22                      | 45           | 12                    | 25            | 54                       | 24             | 43         | 155              | 36          | 22                 | 13  |                     |
|               | Females... | 378          | 15                      | 36           | 6                     | 25            | 58                       | 18             | 32         | 131              | 33          | 12                 | 12  |                     |
|               | Total..... | 829          | 37                      | 81           | 18                    | 50            | 112                      | 42             | 75         | 286              | 69          | 34                 | 25  |                     |
| September ... | Males..... | 336          | 14                      | 28           | 7                     | 18            | 45                       | 15             | 24         | 130              | 20          | 23                 | 12  |                     |
|               | Females... | 327          | 11                      | 28           | 10                    | 12            | 42                       | 17             | 31         | 113              | 30          | 24                 | 9   |                     |
|               | Total..... | 663          | 25                      | 56           | 17                    | 30            | 87                       | 32             | 55         | 243              | 50          | 47                 | 21  |                     |
| October.....  | Males..... | 337          | 14                      | 24           | 5                     | 28            | 38                       | 9              | 32         | 138              | 21          | 14                 | 14  |                     |
|               | Females... | 292          | 10                      | 21           | 4                     | 17            | 38                       | 16             | 22         | 112              | 24          | 21                 | 7   |                     |
|               | Total..... | 629          | 24                      | 45           | 9                     | 45            | 76                       | 25             | 54         | 250              | 45          | 35                 | 21  |                     |
| November ...  | Males..... | 281          | 10                      | 23           | 8                     | 10            | 32                       | 8              | 29         | 115              | 16          | 22                 | 8   |                     |
|               | Females... | 300          | 16                      | 22           | 8                     | 6             | 34                       | 14             | 34         | 121              | 23          | 15                 | 7   |                     |
|               | Total..... | 581          | 26                      | 45           | 16                    | 16            | 66                       | 22             | 63         | 236              | 39          | 37                 | 15  |                     |
| December....  | Males..... | 340          | 12                      | 19           | 7                     | 15            | 50                       | 18             | 28         | 143              | 20          | 13                 | 15  |                     |
|               | Females... | 338          | 10                      | 26           | 7                     | 12            | 52                       | 15             | 31         | 145              | 19          | 10                 | 11  |                     |
|               | Total..... | 678          | 22                      | 45           | 14                    | 27            | 102                      | 33             | 59         | 288              | 39          | 23                 | 26  |                     |
| Whole Year..  | Males..... | 4,473        | 153                     | 337          | 87                    | 229           | 580                      | 179            | 387        | 1,865            | 253         | 234                | 167 |                     |
|               | Females... | 4,350        | 142                     | 371          | 100                   | 194           | 557                      | 173            | 405        | 1,813            | 303         | 205                | 87  |                     |
|               | Total..... | 8,823        | 297                     | 708          | 187                   | 423           | 1,137                    | 352            | 792        | 3,678            | 556         | 439                | 254 |                     |

TABLE VI.—DEATHS, 1900.

*Exhibiting the Whole Number, the Proportion to Population, and Number of each Sex, in every Town and Division of the State.*

| TOWNS<br>AND DIVISIONS OF THE STATE. | Total Deaths. | Population, 1900. | Deaths per 1,000<br>of population. | DEATHS.     |                        |
|--------------------------------------|---------------|-------------------|------------------------------------|-------------|------------------------|
|                                      |               |                   |                                    | SEX.        | Number of<br>each sex. |
| Barrington.....                      | 21            | 1,135             | 18.5                               | Males.....  | 14                     |
|                                      |               |                   |                                    | Females.... | 7                      |
| Bristol.....                         | 170           | 6,901             | 24.6                               | Males.....  | 94                     |
|                                      |               |                   |                                    | Females.... | 76                     |
| Warren.....                          | 106           | 5,108             | 20.7                               | Males.....  | 47                     |
|                                      |               |                   |                                    | Females.... | 59                     |
| BRISTOL COUNTY.....                  | 297           | 13,144            | 22.6                               | Males.....  | 155                    |
|                                      |               |                   |                                    | Females.... | 142                    |
| Coventry.....                        | 105           | 5,279             | 19.9                               | Males.....  | 46                     |
|                                      |               |                   |                                    | Females.... | 59                     |
| East Greenwich....                   | 70            | 2,775             | 25.2                               | Males.....  | 34                     |
|                                      |               |                   |                                    | Females.... | 36                     |
| West Greenwich.....                  | 18            | 606               | 29.7                               | Males.....  | 6                      |
|                                      |               |                   |                                    | Females.... | 12                     |
| Warwick.....                         | 515           | 21,316            | 24.2                               | Males.....  | 251                    |
|                                      |               |                   |                                    | Females.... | 264                    |
| KENT COUNTY.....                     | 708           | 29,976            | 23.6                               | Males.....  | 337                    |
|                                      |               |                   |                                    | Females.... | 371                    |
| Jamestown.....                       | 19            | 1,498             | 12.7                               | Males.....  | 9                      |
|                                      |               |                   |                                    | Females.... | 10                     |
| Little Compton.....                  | 27            | 1,132             | 23.9                               | Males.....  | 13                     |
|                                      |               |                   |                                    | Females.... | 14                     |
| Middletown....                       | 22            | 1,457             | 15.1                               | Males.....  | 9                      |
|                                      |               |                   |                                    | Females.... | 13                     |
| NEWPORT CITY.....                    | 423           | 22,034            | 19.2                               | Males.....  | 229                    |
|                                      |               |                   |                                    | Females.... | 194                    |
| New Shoreham....                     | 33            | 1,396             | 23.6                               | Males.....  | 10                     |
|                                      |               |                   |                                    | Females.... | 23                     |
| Portsmouth.....                      | 34            | 2,105             | 16.1                               | Males.....  | 22                     |
|                                      |               |                   |                                    | Females.... | 12                     |

TABLE VI.—DEATHS, 1900.—Continued.

*Exhibiting the number of Deaths in each Period of Life, in every Town and Division of the State.*

| Under 1 year. | 1 to 2. | 2 to 3. | 3 to 4. | 4 to 5. | 5 to 10. | 10 to 15. | 15 to 20. | 20 to 30. | 30 to 40. | 40 to 50. | 50 to 60. | 60 to 70. | 70 to 80. | 80 to 90. | 90 and over. | Age unstated. |
|---------------|---------|---------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|---------------|
| 3             | 2       | ....    | 1       | ....    | ....     | 1         | ....      | 2         | ....      | ....      | ....      | ....      | 3         | 2         | ....         | ....          |
| 1             | 1       | ....    | 1       | ....    | ....     | ....      | ....      | ....      | 1         | 1         | 1         | 1         | ....      | ....      | ....         | ....          |
| 19            | 4       | 5       | 2       | 2       | 4        | ....      | 1         | 6         | 5         | 3         | 5         | 16        | 15        | 7         | ....         | ....          |
| 21            | 4       | ....    | ....    | 1       | 2        | 2         | 1         | 5         | 1         | 3         | 7         | 9         | 9         | 11        | ....         | ....          |
| 19            | 1       | 4       | 1       | ....    | 3        | ....      | ....      | 1         | 2         | 4         | 3         | 2         | 3         | 3         | 1            | ....          |
| 10            | 3       | 1       | 2       | 1       | 1        | ....      | 2         | 5         | 4         | 4         | 7         | 10        | 3         | 5         | 1            | ....          |
| 41            | 7       | 9       | 4       | 2       | 7        | 1         | 1         | 9         | 7         | 7         | 8         | 18        | 21        | 12        | 1            | ....          |
| 32            | 8       | 1       | 3       | 2       | 3        | 2         | 3         | 10        | 6         | 8         | 15        | 20        | 12        | 16        | 1            | ....          |
| 15            | 2       | 1       | ....    | ....    | 2        | ....      | ....      | 2         | 5         | 2         | 4         | 3         | 5         | 4         | 1            | ....          |
| 9             | 6       | 1       | 1       | 1       | 1        | ....      | 1         | 4         | 2         | 3         | 5         | 4         | 14        | 6         | 1            | ....          |
| 7             | 1       | ....    | ....    | ....    | 2        | 1         | 2         | ....      | 2         | 3         | 3         | 5         | 3         | 5         | ....         | ....          |
| 7             | 2       | ....    | ....    | ....    | 1        | 2         | ....      | ....      | 3         | 3         | 5         | 3         | 3         | 5         | 2            | ....          |
| 1             | ....    | 1       | ....    | ....    | ....     | ....      | ....      | 1         | ....      | ....      | ....      | ....      | 2         | 1         | ....         | ....          |
| 1             | ....    | 1       | ....    | ....    | 1        | 1         | ....      | 1         | ....      | ....      | 2         | 3         | 1         | 1         | ....         | ....          |
| 83            | 22      | 7       | 7       | 3       | 9        | 7         | 9         | 9         | 11        | 15        | 21        | 18        | 21        | 6         | 1            | 2             |
| 71            | 16      | 7       | 5       | 3       | 8        | 4         | 6         | 17        | 19        | 17        | 16        | 26        | 27        | 18        | 3            | 1             |
| 106           | 25      | 9       | 7       | 3       | 13       | 8         | 11        | 12        | 18        | 20        | 28        | 26        | 31        | 16        | 2            | 2             |
| 88            | 24      | 9       | 6       | 4       | 11       | 7         | 7         | 22        | 24        | 23        | 28        | 36        | 45        | 30        | 6            | 1             |
| 4             | 2       | ....    | ....    | ....    | ....     | ....      | 1         | ....      | 1         | ....      | ....      | ....      | ....      | 1         | ....         | ....          |
| 2             | ....    | ....    | ....    | ....    | ....     | ....      | 1         | ....      | ....      | 2         | ....      | 3         | 2         | ....      | ....         | ....          |
| 3             | ....    | ....    | ....    | ....    | ....     | ....      | ....      | 2         | ....      | 1         | 2         | 2         | 2         | ....      | 1            | ....          |
| 2             | ....    | ....    | ....    | ....    | ....     | ....      | ....      | 2         | 1         | ....      | 1         | 1         | 6         | 1         | ....         | ....          |
| 4             | ....    | 1       | 1       | ....    | ....     | ....      | ....      | ....      | ....      | ....      | 1         | ....      | 1         | 1         | ....         | ....          |
| 2             | 1       | ....    | ....    | ....    | ....     | ....      | ....      | ....      | 1         | ....      | 1         | 1         | 4         | 2         | 1            | ....          |
| 64            | 9       | 4       | 2       | 3       | 2        | 4         | 8         | 19        | 11        | 16        | 23        | 32        | 23        | 5         | 1            | 3             |
| 30            | 8       | 3       | 1       | 2       | 7        | 3         | 5         | 18        | 12        | 10        | 15        | 24        | 32        | 21        | 2            | 1             |
| 1             | ....    | ....    | ....    | ....    | 1        | ....      | ....      | ....      | 1         | 1         | ....      | 1         | 4         | 1         | ....         | ....          |
| 1             | 1       | ....    | ....    | ....    | ....     | 1         | 1         | ....      | ....      | 2         | 6         | 1         | 7         | 2         | 1            | ....          |
| 5             | 1       | ....    | 1       | ....    | ....     | ....      | ....      | 1         | ....      | ....      | 5         | 1         | 4         | 4         | ....         | ....          |
| 2             | ....    | 1       | ....    | ....    | ....     | ....      | ....      | 1         | 1         | 2         | 1         | ....      | 1         | 3         | ....         | ....          |

TABLE VI.—DEATHS, 1900.—Continued.

*Exhibiting the Whole Number, the Proportion of Population, and Number of each Sex, in every Town and Division of the State.*

| TOWNS<br>AND DIVISIONS OF THE STATE. | Total Deaths. | Population, 1900. | Deaths per 1,000<br>of population. | DEATHS.      |                        |
|--------------------------------------|---------------|-------------------|------------------------------------|--------------|------------------------|
|                                      |               |                   |                                    | SEX.         | Number of<br>each sex. |
| Tiverton.....                        | 52            | 2,977             | 17.5                               | Males.....   | 24                     |
|                                      |               |                   |                                    | Females .... | 28                     |
| NEWPORT COUNTY.....                  | 610           | 32,599            | 18.7                               | Males.....   | 316                    |
|                                      |               |                   |                                    | Females .... | 294                    |
| Burrillville.....                    | 111           | 6,317             | 17.6                               | Males.....   | 57                     |
|                                      |               |                   |                                    | Females .... | 54                     |
| CENTRAL FALLS.....                   | 352           | 18,167            | 19.4                               | Males.....   | 179                    |
|                                      |               |                   |                                    | Females .... | 173                    |
| Cranston.....                        | 188           | 11,114            | 16.9                               | Males.....   | 98                     |
|                                      |               |                   |                                    | Females .... | 90                     |
| Cumberland.....                      | 154           | 8,925             | 17.3                               | Males.....   | 77                     |
|                                      |               |                   |                                    | Females .... | 77                     |
| East Providence... ..                | 211           | 12,138            | 17.4                               | Males.....   | 102                    |
|                                      |               |                   |                                    | Females .... | 109                    |
| Foster.....                          | 19            | 1,151             | 16.5                               | Males.....   | 11                     |
|                                      |               |                   |                                    | Females .... | 8                      |
| Glocester.....                       | 32            | 1,462             | 21.9                               | Males.....   | 13                     |
|                                      |               |                   |                                    | Females .... | 19                     |
| Johnston.....                        | 70            | 4,305             | 16.3                               | Males.....   | 35                     |
|                                      |               |                   |                                    | Females .... | 35                     |
| Lincoln.....                         | 148           | 8,937             | 16.6                               | Males.....   | 79                     |
|                                      |               |                   |                                    | Females .... | 69                     |
| North Providence.....                | 42            | 3,016             | 13.9                               | Males.....   | 21                     |
|                                      |               |                   |                                    | Females .... | 21                     |
| North Smithfield.....                | 39            | 2,422             | 16.1                               | Males.....   | 25                     |
|                                      |               |                   |                                    | Females .... | 14                     |
| PAWTUCKET.....                       | 792           | 39,231            | 20.2                               | Males.....   | 387                    |
|                                      |               |                   |                                    | Females .... | 405                    |
| PROVIDENCE CITY.....                 | 2,678         | 175,597           | 20.9                               | Males.....   | 1,865                  |
|                                      |               |                   |                                    | Females .... | 1,813                  |

TABLE VI.—DEATHS, 1900.—Continued.

*Exhibiting the number of Deaths in each Period of Life, in every Town and Division of the State.*

| Under 1 year. | 1 to 2. | 2 to 3. | 3 to 4. | 4 to 5. | 5 to 10. | 10 to 15. | 15 to 20. | 20 to 30. | 30 to 40. | 40 to 50. | 50 to 60. | 60 to 70. | 70 to 80. | 80 to 90. | 90 and over. | Age unstated. |
|---------------|---------|---------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|---------------|
| 10            | .....   | .....   | .....   | .....   | .....    | .....     | .....     | .....     | .....     | 2         | 4         | 2         | 3         | 3         | .....        | .....         |
| 10            | 1       | 1       | 1       | .....   | .....    | .....     | .....     | 1         | 2         | 1         | 2         | 4         | 4         | 1         | .....        | .....         |
| 91            | 12      | 5       | 4       | 3       | 3        | 4         | 9         | 22        | 13        | 20        | 35        | 38        | 37        | 15        | 2            | 3             |
| 49            | 11      | 5       | 2       | 2       | 7        | 4         | 7         | 22        | 17        | 17        | 26        | 34        | 56        | 30        | 4            | 1             |
| 14            | 2       | .....   | 1       | .....   | .....    | 1         | 1         | 5         | 6         | 7         | 5         | 5         | 7         | 3         | .....        | .....         |
| 16            | 2       | .....   | .....   | .....   | 1        | 1         | .....     | 2         | 4         | 4         | 3         | 8         | 9         | 4         | .....        | .....         |
| 63            | 21      | 5       | 4       | 1       | 9        | 2         | 2         | 5         | 17        | 12        | 19        | 8         | 8         | 3         | .....        | .....         |
| 41            | 8       | 5       | 4       | 1       | 8        | 5         | 3         | 17        | 13        | 12        | 25        | 11        | 17        | 2         | 1            | ...           |
| 23            | 6       | 2       | 1       | 2       | 10       | 1         | 2         | 5         | 5         | 4         | 12        | 11        | 10        | 4         | .....        | .....         |
| 17            | 10      | 5       | .....   | 2       | 4        | 1         | 2         | 3         | 2         | 2         | 11        | 16        | 7         | 8         | .....        | .....         |
| 20            | 2       | 1       | .....   | 2       | 1        | 4         | 4         | 9         | 6         | 3         | 6         | 5         | 7         | 4         | 2            | 1             |
| 12            | 5       | .....   | 1       | 1       | .....    | 1         | 2         | 4         | 9         | 6         | 6         | 15        | 11        | 1         | 1            | 2             |
| 21            | 3       | 2       | 1       | 4       | 1        | 3         | 2         | 6         | 3         | 8         | 15        | 15        | 8         | 10        | .....        | .....         |
| 22            | 9       | 3       | 3       | 1       | 4        | 1         | 2         | 5         | 7         | 7         | 13        | 10        | 10        | 10        | 1            | 1             |
| 1             | .....   | .....   | .....   | .....   | 1        | .....     | .....     | .....     | .....     | 1         | 2         | .....     | 2         | 4         | .....        | .....         |
| 1             | .....   | .....   | .....   | .....   | .....    | .....     | .....     | .....     | 1         | 1         | 1         | 1         | 2         | 1         | .....        | .....         |
| ...           | 1       | .....   | .....   | .....   | .....    | .....     | .....     | .....     | 1         | 1         | 1         | 2         | 3         | 3         | 1            | ...           |
| 3             | .....   | .....   | .....   | .....   | .....    | .....     | .....     | 3         | 1         | 1         | 2         | 3         | 4         | 1         | 1            | ...           |
| 12            | 2       | .....   | 2       | .....   | .....    | 1         | .....     | 3         | 1         | 1         | 3         | 7         | 3         | .....     | .....        | .....         |
| 7             | 3       | 1       | .....   | .....   | 3        | ...       | 1         | 4         | 1         | 1         | 3         | 5         | 3         | 3         | .....        | .....         |
| 26            | 13      | 4       | .....   | 2       | 4        | .....     | ...       | 6         | 4         | 3         | 2         | 10        | 5         | .....     | .....        | .....         |
| 20            | 6       | 3       | .....   | 1       | 1        | .....     | 3         | 4         | 2         | 8         | 9         | 5         | 6         | .....     | 1            | ...           |
| 3             | .....   | 3       | .....   | 1       | 1        | .....     | 2         | 3         | 3         | 1         | 1         | .....     | 2         | 1         | .....        | .....         |
| 6             | 1       | 1       | .....   | .....   | .....    | 1         | 1         | 3         | 2         | .....     | 1         | 1         | 1         | 3         | .....        | .....         |
| 2             | 2       | 1       | 1       | .....   | 1        | .....     | .....     | 1         | 2         | 3         | 1         | 6         | 4         | 1         | .....        | .....         |
| 3             | 1       | 1       | .....   | .....   | .....    | .....     | 2         | 2         | .....     | .....     | .....     | 1         | 3         | 1         | .....        | .....         |
| 106           | 26      | 9       | 9       | 4       | 15       | 6         | 4         | 24        | 24        | 26        | 41        | 45        | 36        | 8         | 4            | ...           |
| 98            | 17      | 10      | 6       | 2       | 10       | 3         | 9         | 32        | 25        | 26        | 41        | 49        | 46        | 28        | 3            | ...           |
| 444           | 111     | 58      | 37      | 20      | 63       | 19        | 36        | 157       | 171       | 179       | 198       | 171       | 139       | 58        | 4            | ...           |
| 361           | 115     | 34      | 26      | 24      | 44       | 15        | 47        | 179       | 150       | 144       | 183       | 193       | 183       | 98        | 17           | ...           |



TABLE VI.—DEATHS, 1900.—Continued.

*Exhibiting the Whole Number, the Proportion of Population, and Number of each Sex, in every Town and Division of the State.*

| TOWNS<br>AND DIVISIONS OF THE STATE. | Total Deaths. | Population, 1900. | Deaths per 1,000<br>of population. | DEATHS.     |                        |
|--------------------------------------|---------------|-------------------|------------------------------------|-------------|------------------------|
|                                      |               |                   |                                    | SEX.        | Number of<br>each sex. |
| Scituate.....                        | 69            | 3,361             | 20.5                               | Males.....  | 34                     |
|                                      |               |                   |                                    | Females.... | 35                     |
| Smithfield.....                      | 54            | 2,107             | 25.6                               | Males.....  | 28                     |
|                                      |               |                   |                                    | Females.... | 26                     |
| WOONSOCKET.....                      | 556           | 28,204            | 19.7                               | Males.....  | 253                    |
|                                      |               |                   |                                    | Females.... | 303                    |
| PROVIDENCE COUNTY.....               | 6,515         | 326,454           | 19.9                               | Males.....  | 3,264                  |
|                                      |               |                   |                                    | Females.... | 3,251                  |
| Charlestown.....                     | 17            | 975               | 17.4                               | Males.....  | 6                      |
|                                      |               |                   |                                    | Females.... | 11                     |
| Exeter.....                          | 18            | 841               | 21.3                               | Males.....  | 7                      |
|                                      |               |                   |                                    | Females.... | 11                     |
| Hopkinton.....                       | 44            | 2,602             | 16.9                               | Males.....  | 28                     |
|                                      |               |                   |                                    | Females.... | 16                     |
| Narragansett District.....           | 20            | 1,523             | 13.1                               | Males.....  | 11                     |
|                                      |               |                   |                                    | Females.... | 9                      |
| North Kingstown.....                 | 72            | 4,194             | 17.2                               | Males.....  | 33                     |
|                                      |               |                   |                                    | Females.... | 39                     |
| South Kingstown.....                 | 99            | 4,972             | 19.9                               | Males.....  | 47                     |
|                                      |               |                   |                                    | Females.... | 52                     |
| Richmond.....                        | 28            | 1,506             | 18.6                               | Males.....  | 17                     |
|                                      |               |                   |                                    | Females.... | 11                     |
| Westerly.....                        | 141           | 7,541             | 18.7                               | Males.....  | 85                     |
|                                      |               |                   |                                    | Females.... | 56                     |
| WASHINGTON COUNTY.....               | 439           | 24,154            | 18.2                               | Males.....  | 234                    |
|                                      |               |                   |                                    | Females.... | 205                    |
| STATE INSTITUTIONS.....              | 254           | 2,229             | 113.9                              | Males.....  | 167                    |
|                                      |               |                   |                                    | Females.... | 87                     |

TABLE VI.—DEATHS, 1900.—Continued.

*Exhibiting the number of Deaths in each Period of Life, in every Town and Division of the State.*

| Under 1 year. | 1 to 2. | 2 to 3. | 3 to 4. | 4 to 5. | 5 to 10. | 10 to 15. | 15 to 20. | 20 to 30. | 30 to 40. | 40 to 50. | 50 to 60. | 60 to 70. | 70 to 80. | 80 to 90. | 90 and over. | Age unstated. |
|---------------|---------|---------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|---------------|
| 5             | 1       | .....   | .....   | .....   | .....    | 1         | 1         | 1         | 2         | 1         | 3         | 5         | 9         | 4         | 1            | ...           |
| 8             | .....   | .....   | 1       | .....   | .....    | .....     | 1         | 2         | .....     | 3         | .....     | 8         | 7         | 4         | 1            | ...           |
| 5             | 2       | .....   | 1       | .....   | 1        | .....     | 1         | 1         | .....     | 2         | 2         | 6         | 6         | 1         | .....        | ...           |
| 5             | 1       | .....   | .....   | .....   | 2        | .....     | 1         | 3         | 1         | .....     | 2         | 2         | 7         | 2         | .....        | ...           |
| 103           | 21      | 7       | 4       | 4       | 8        | 6         | 7         | 17        | 10        | 12        | 20        | 15        | 13        | 5         | 1            | ...           |
| 114           | 11      | 5       | 8       | 8       | 9        | 4         | 7         | 32        | 21        | 14        | 19        | 20        | 17        | 13        | 1            | ...           |
| 848           | 213     | 92      | 61      | 40      | 115      | 44        | 62        | 243       | 255       | 264       | 331       | 311       | 262       | 109       | 13           | 1             |
| 734           | 189     | 68      | 49      | 40      | 86       | 32        | 81        | 295       | 239       | 229       | 319       | 348       | 333       | 179       | 27           | 3             |
| 2             | .....   | .....   | .....   | .....   | .....    | .....     | 1         | .....     | .....     | .....     | .....     | 1         | 2         | .....     | .....        | ...           |
| 1             | .....   | .....   | .....   | .....   | .....    | .....     | .....     | .....     | .....     | .....     | 2         | 2         | 2         | 4         | .....        | ...           |
| .....         | .....   | .....   | .....   | .....   | .....    | .....     | .....     | .....     | .....     | .....     | 2         | 1         | 2         | 2         | .....        | ...           |
| .....         | .....   | .....   | 1       | .....   | .....    | .....     | 1         | 1         | .....     | 3         | 1         | .....     | 2         | 2         | .....        | ...           |
| 5             | 1       | 1       | .....   | .....   | .....    | .....     | 1         | 1         | 1         | .....     | 3         | 3         | 5         | 6         | 1            | ...           |
| 2             | .....   | .....   | .....   | .....   | .....    | .....     | .....     | .....     | 1         | 2         | 3         | 4         | 3         | 1         | .....        | ...           |
| 2             | 1       | .....   | 1       | .....   | 1        | .....     | .....     | 2         | 1         | .....     | 1         | .....     | 1         | 1         | .....        | ...           |
| 2             | .....   | .....   | .....   | .....   | .....    | 1         | .....     | 1         | 2         | 1         | .....     | .....     | 1         | 1         | .....        | ...           |
| 5             | 3       | .....   | .....   | .....   | .....    | 2         | 1         | 3         | 3         | 3         | 2         | 3         | 7         | .....     | 1            | ...           |
| 4             | 1       | 1       | 1       | .....   | .....    | .....     | 1         | 2         | 2         | 2         | 8         | 3         | 9         | 5         | .....        | ...           |
| 11            | 4       | 1       | .....   | .....   | 1        | .....     | 1         | 2         | 2         | 1         | 4         | 10        | 4         | 6         | .....        | ...           |
| 7             | 2       | 1       | .....   | .....   | 1        | .....     | 2         | 6         | 2         | 5         | 7         | 2         | 9         | 6         | 2            | ...           |
| 3             | .....   | .....   | .....   | .....   | 1        | .....     | 2         | 1         | 1         | 1         | 3         | 1         | 3         | 1         | .....        | ...           |
| .....         | .....   | .....   | .....   | .....   | .....    | 1         | .....     | 2         | 1         | 1         | 1         | 1         | 2         | 2         | .....        | ...           |
| 20            | 3       | 1       | 2       | 2       | 1        | 4         | 2         | 6         | .....     | 9         | 6         | 7         | 11        | 11        | .....        | ...           |
| 6             | 1       | 2       | .....   | 1       | .....    | 1         | 3         | 2         | 3         | 6         | 8         | 8         | 8         | 6         | 1            | ...           |
| 48            | 12      | 3       | 3       | 2       | 4        | 6         | 8         | 15        | 8         | 14        | 21        | 26        | 35        | 27        | 2            | ...           |
| 22            | 4       | 4       | 2       | 1       | 1        | 3         | 7         | 14        | 11        | 20        | 30        | 20        | 36        | 27        | 3            | ...           |
| 4             | .....   | .....   | .....   | .....   | .....    | 2         | 5         | 8         | 25        | 38        | 24        | 31        | 14        | 12        | 3            | 1             |
| 3             | .....   | .....   | .....   | .....   | .....    | .....     | 2         | 8         | 13        | 17        | 10        | 15        | 13        | 4         | 2            | ...           |

TABLE VI.—DEATHS, 1900.—Continued.

(RECAPITULATION.)

*Exhibiting the Whole Number, the Proportion to Population, and  
Number of each Sex, in every Division of the State.*

| DIVISIONS OF THE STATE. | Total Deaths. | Population, 1900. | Deaths per 1,000<br>of population. | DEATHS.     |                        |
|-------------------------|---------------|-------------------|------------------------------------|-------------|------------------------|
|                         |               |                   |                                    | SEX.        | Number of<br>each Sex. |
| BRISTOL COUNTY.....     | 297           | 31,144            | 22.6                               | Males.....  | 155                    |
|                         |               |                   |                                    | Females.... | 142                    |
| KENT COUNTY.....        | 708           | 29,976            | 23.6                               | Males.....  | 337                    |
|                         |               |                   |                                    | Females.... | 371                    |
| NEWPORT COUNTY.....     | 610           | 32,599            | 18.7                               | Males.....  | 316                    |
|                         |               |                   |                                    | Females.... | 294                    |
| PROVIDENCE COUNTY.....  | 6,515         | 326,454           | 19.9                               | Males.....  | 3,264                  |
|                         |               |                   |                                    | Females.... | 3,251                  |
| WASHINGTON COUNTY.....  | 439           | 24,154            | 18.2                               | Males.....  | 234                    |
|                         |               |                   |                                    | Females.... | 205                    |
| STATE INSTITUTIONS..... | 254           | 2,229             | 113.9                              | Males.....  | 167                    |
|                         |               |                   |                                    | Females.... | 87                     |
| WHOLE STATE.....        | 8,823         | 428,556           | 20.6                               | Males.....  | 4,473                  |
|                         |               |                   |                                    | Females.... | 4,350                  |

TABLE VI.—DEATHS, 1900.—Concluded.

(RECAPITULATION.)

*Exhibiting the number of Deaths in each Period of Life, in every Division of the State.*

| Under 1 year. | 1 to 2. | 2 to 3. | 3 to 4. | 4 to 5. | 5 to 10. | 10 to 15. | 15 to 20. | 20 to 30. | 30 to 40. | 40 to 50. | 50 to 60. | 60 to 70. | 70 to 80. | 80 to 90. | 90 and over. | Age unstated. |
|---------------|---------|---------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|---------------|
| 41            | 7       | 9       | 4       | 2       | 7        | 1         | 1         | 9         | 7         | 7         | 8         | 18        | 21        | 12        | 1            | ..            |
| 32            | 8       | 1       | 3       | 2       | 3        | 2         | 3         | 10        | 6         | 8         | 15        | 20        | 12        | 16        | 1            | ..            |
| 106           | 25      | 9       | 7       | 3       | 13       | 8         | 11        | 12        | 18        | 20        | 28        | 26        | 31        | 16        | 2            | 2             |
| 88            | 24      | 9       | 6       | 4       | 11       | 7         | 7         | 22        | 24        | 23        | 28        | 36        | 45        | 30        | 6            | 1             |
| 91            | 12      | 5       | 4       | 3       | 3        | 4         | 9         | 22        | 13        | 20        | 35        | 38        | 37        | 15        | 2            | 3             |
| 49            | 11      | 5       | 2       | 2       | 7        | 4         | 7         | 22        | 17        | 17        | 26        | 34        | 56        | 30        | 4            | 1             |
| 848           | 213     | 92      | 61      | 40      | 115      | 44        | 62        | 243       | 255       | 264       | 331       | 311       | 262       | 109       | 13           | 1             |
| 734           | 189     | 68      | 49      | 40      | 86       | 32        | 81        | 295       | 239       | 229       | 319       | 348       | 333       | 179       | 27           | 3             |
| 48            | 12      | 3       | 3       | 2       | 4        | 6         | 8         | 15        | 8         | 14        | 21        | 26        | 35        | 27        | 2            | ..            |
| 22            | 4       | 4       | 2       | 1       | 1        | 3         | 7         | 14        | 11        | 20        | 30        | 20        | 36        | 27        | 3            | ..            |
| 4             | ....    | ....    | ....    | ....    | ....     | 2         | 5         | 8         | 25        | 38        | 24        | 31        | 14        | 12        | 3            | 1             |
| 3             | ....    | ....    | ....    | ....    | ....     | ....      | 2         | 8         | 13        | 17        | 10        | 15        | 13        | 4         | 2            | ..            |
| 1138          | 269     | 118     | 79      | 50      | 142      | 65        | 96        | 309       | 326       | 363       | 447       | 450       | 400       | 191       | 23           | 7             |
| 928           | 236     | 87      | 62      | 49      | 108      | 48        | 107       | 371       | 310       | 314       | 428       | 473       | 495       | 286       | 43           | 5             |

TABLE VII.—CAUSES OF DEATH, 1900.

Arranged Alphabetically; showing the Number of each Sex who died from each cause, in each month and in the whole year 1900; also the Number of Native-born and Foreign-born, and also the Number of Native and of Foreign Parentage, from each cause, for the year.

| CAUSES OF DEATH.         | Jan. |      | Feb. |      | Mar. |      | Apr. |      | May. |      | June. |      | July. |      | Aug. |      | Sept. |      | Oct. |      | Nov. |      | Dec. |      | NATIVITY. |      | PARENT-AGE. |      | SEX. |      |
|--------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|------|-------|------|------|------|------|------|------|------|-----------|------|-------------|------|------|------|
|                          | M.   | F.   | M.   | F.   | M.   | F.   | M.   | F.   | M.   | F.   | M.    | F.   | M.    | F.   | M.   | F.   | M.    | F.   | M.   | F.   | M.   | F.   | M.   | F.   | M.        | F.   | M.          | F.   | M.   | F.   |
|                          | Am.  | For. | Am.  | For. | Am.  | For. | Am.  | For. | Am.  | For. | Am.   | For. | Am.   | For. | Am.  | For. | Am.   | For. | Am.  | For. | Am.  | For. | Am.  | For. | Am.       | For. | Am.         | For. | Am.  | For. |
| Abcess, Alveolar.....    | 1    |      |      |      |      |      |      |      |      |      |       |      |       |      |      |      |       |      |      |      |      |      |      |      | 1         |      |             |      | 1    |      |
| Abcess of Ear.....       | 1    |      |      |      |      |      |      |      |      |      |       |      |       |      |      |      |       |      |      |      |      |      |      |      | 1         |      |             |      | 1    |      |
| Brain.....               |      | 1    | 1    |      |      |      | 1    |      |      |      |       | 1    | 1     |      |      |      |       |      |      |      |      |      |      |      | 5         | 2    |             | 3    | 4    |      |
| Kidney.....              |      |      |      |      | 1    |      |      |      |      |      |       |      |       |      |      |      |       |      |      |      |      |      |      |      | 1         |      |             |      | 1    |      |
| Leg.....                 |      |      |      |      |      |      |      |      |      |      | 1     |      |       |      |      |      |       |      |      |      |      |      |      |      | 1         |      |             |      | 1    |      |
| Liver.....               | 1    | 1    |      |      |      |      |      |      | 1    |      |       |      |       |      |      |      |       |      |      |      |      |      |      |      | 3         |      |             |      | 1    | 2    |
| Mastoid.....             |      |      |      |      | 1    |      |      |      |      |      |       |      |       |      |      |      |       |      |      |      |      |      |      |      | 1         |      |             |      | 1    |      |
| Mouth.....               |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |      | 1     |      |      |      |      |      |      |      | 1         |      |             |      | 1    |      |
| Neck.....                | 1    |      |      |      |      |      |      |      |      |      |       |      |       |      | 1    |      |       |      |      |      |      |      |      |      | 2         |      |             |      | 1    | 1    |
| Ovary.....               |      |      |      |      |      |      |      |      |      |      |       |      |       | 1    |      |      |       |      |      |      |      |      |      |      | 1         |      |             |      | 1    |      |
| Pelvis.....              | 1    | 1    |      |      |      |      | 1    |      |      |      |       |      |       | 1    |      | 2    |       |      |      |      |      |      |      |      | 1         | 5    |             |      | 6    |      |
| Peritonæum.....          |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |      |       |      |      |      |      |      |      |      | 1         |      |             |      | 1    |      |
| Stomach.....             |      |      |      |      |      |      |      |      |      |      | 1     |      |       |      |      |      |       |      |      |      |      |      |      |      | 1         |      |             |      | 1    |      |
| Sub-Phrenic.....         |      | 1    |      |      |      |      |      |      |      |      |       |      |       |      |      |      |       |      |      |      |      |      |      |      | 1         |      |             |      | 1    |      |
| Accidents, Asphyxia..... | 4    | 1    | 2    | 2    | 3    |      | 2    |      | 3    |      |       |      |       |      | 2    | 1    | 1     |      | 2    | 1    |      | 2    | 2    | 1    | 23        | 6    | 13          | 16   | 21   | 8    |
| Bicycle.....             |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |      |       |      |      |      |      |      |      |      |           |      |             |      | 1    |      |
| Burns and Scalds.....    |      | 2    | 1    |      | 7    | 3    | 1    | 1    | 2    | 1    | 2     |      | 4     | 1    |      |      | 1     |      | 2    |      | 2    | 2    |      | 23   | 10        | 7    | 26          | 14   | 19   |      |
| Drowning.....            | 6    | 2    | 1    | 3    | 1    | 2    |      | 3    | 1    | 12   |       | 11   | 1     | 10   | 2    | 2    | 1     | 2    | 2    |      |      |      |      | 38   | 26        | 18   | 46          | 54   | 10   |      |
| Electric Car.....        | 1    |      | 1    |      | 1    |      | 1    |      |      |      | 6     |      | 4     | 1    | 1    |      | 2     |      |      |      | 1    |      |      | 13   | 6         | 9    | 10          | 15   | 4    |      |

TABLE VII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH             | NATIVITY. |    |    |    |    |    |      |    |    |    |    |    | PARENT-AGE. |    | SEX. |    |      |    |       |    |       |     |      |     |       |     |      |     |      |     |      |     |     |
|-----------------------------|-----------|----|----|----|----|----|------|----|----|----|----|----|-------------|----|------|----|------|----|-------|----|-------|-----|------|-----|-------|-----|------|-----|------|-----|------|-----|-----|
|                             | Jan.      |    |    |    |    |    | Feb. |    |    |    |    |    | Mar.        |    | Apr. |    | May. |    | June. |    | July. |     | Aug. |     | Sept. |     | Oct. |     | Nov. |     | Dec. |     |     |
|                             | M.        | F. | M. | F. | M. | F. | M.   | F. | M. | F. | M. | F. | M.          | F. | M.   | F. | M.   | F. | M.    | F. | M.    | F.  | M.   | F.  | M.    | F.  | M.   | F.  | M.   | F.  | M.   | F.  |     |
| Accidents, Elevator.....    |           |    |    |    |    |    |      |    |    |    |    |    |             |    |      |    |      |    |       |    |       |     |      |     |       |     |      |     |      |     |      |     |     |
| Falls.....                  | 2         | 1  | 5  | 4  | 1  | 1  | 4    | 2  | 4  | 1  | 1  | 4  | 5           | 1  | 3    | 4  | 6    | 4  | 1     | 7  | 2     | 2   | 3    | 35  | 37    | 22  | 50   | 1   | 1    | 2   | 48   | 24  |     |
| Firearms.....               |           |    |    |    |    |    |      |    |    |    |    |    | 2           |    |      |    |      |    | 1     |    |       |     | 2    | 2   | 1     | 3   | 4    | 9   | 8    | 5   |      |     |     |
| Insolation.....             |           |    |    |    |    |    |      |    |    |    |    | 4  | 2           | 4  | 3    |    |      |    |       |    |       |     | 7    | 6   | 4     | 9   | 8    | 5   |      |     |      |     |     |
| Lightning.....              |           |    |    |    |    |    |      |    |    |    |    |    |             |    | 1    |    |      |    |       |    |       |     | 2    | ... | 2     | ... | 2    | ... | 2    | ... | 2    | ... |     |
| Machinery.....              |           |    | 2  | 1  |    |    |      |    |    |    |    |    |             |    |      |    |      | 2  |       |    |       | 1   | ...  | 5   | 2     | 1   | 6    | 3   | 11   | 7   | 7    |     |     |
| Poison.....                 |           |    | 1  | 1  | 3  |    |      | 1  | 2  | 1  |    |    | 1           |    | 1    |    |      | 1  | 1     | 1  | 1     | ... | 8    | 6   | 3     | 11  | 7    | 7   |      |     |      |     |     |
| Lead.....                   |           |    |    |    |    |    |      |    |    |    |    |    |             |    |      |    |      |    |       |    |       |     |      |     |       |     |      |     |      |     |      |     |     |
| Railroad.....               |           |    | 2  | 1  |    |    |      | 2  | 1  |    | 1  |    | 1           |    | 3    | 1  | 5    | 3  |       | 5  |       | 1   | ...  | 19  | 7     | 10  | 16   | 25  | 1    | 1   | 2    | ... |     |
| Various.....                | 1         | 2  | 4  |    | 5  | 1  | 4    |    | 5  | 1  | 6  |    | 4           |    | 2    | 5  |      | 1  | 1     | 5  | 1     | ... | 30   | 18  | 18    | 30  | 44   | 4   | 1    | ... | ...  | ... |     |
| Adeinitis, Multiple.....    |           |    | 1  |    |    |    |      |    |    |    |    |    |             |    |      |    |      |    |       |    |       |     | ...  | ... | ...   | ... | ...  | ... | ...  | ... | ...  | ... |     |
| Albuminuria.....            |           |    |    |    |    |    |      |    |    |    |    |    | 1           |    |      |    |      |    |       |    |       |     | 2    | ... | ...   | ... | ...  | ... | ...  | ... | ...  | ... | ... |
| Alcoholism.....             | 2         | 3  | 1  | 1  | 2  | 6  | 1    | 2  | 1  | 5  | 2  | 4  | 2           | 4  | 1    | 6  |      | 3  | 1     | 4  |       | 4   | 2    | 29  | 28    | 11  | 46   | 42  | 15   | 1   | 1    | ... |     |
| Delirium Tremens. ....      | 1         | 1  |    |    |    |    | 1    |    |    |    |    |    |             |    |      |    |      |    |       |    |       |     | 4    | 1   | 4     | 3   | 5    | 12  | 5    | ... | ...  | ... |     |
| Anemia.....                 |           |    | 1  | 1  | 1  | 1  |      | 1  |    | 2  |    | 1  |             | 2  | 1    |    | 1    | 1  | 1     | 1  | 1     | ... | 14   | 3   | 5     | 12  | 5    | 14  | 1    | ... | ...  | ... |     |
| Pernicious.....             |           |    | 1  | 1  | 3  | 2  |      | 1  | 3  | 2  |    | 1  | 1           | 1  |      | 2  |      | 2  | 1     | 1  | 1     | ... | 11   | 8   | 9     | 10  | 5    | 14  | 4    | 4   | ...  | ... |     |
| Aneurism of Aorta.....      | 1         | 2  |    |    |    |    |      |    |    |    |    |    |             |    |      |    |      |    |       |    |       |     | 7    | 1   | 5     | 3   | 4    | 4   | ...  | ... | ...  | ... |     |
| Angina Pectoris.....        | 1         | 3  | 1  | 3  | 2  |    | 1    | 2  |    | 2  | 1  | 1  | 1           | 3  | 1    |    | 1    | 2  | 2     | 1  | 1     | ... | 24   | 9   | 22    | 11  | 13   | 20  | ...  | ... | ...  | ... |     |
| Apoplexy and Paralysis..... | 11        | 9  | 18 | 14 | 12 | 14 | 5    | 20 | 12 | 7  | 16 | 11 | 12          | 15 | 9    | 8  | 19   | 11 | 14    | 12 | 8     | 7   | 174  | 115 | 159   | 130 | 129  | 160 | ...  | ... | ...  | ... |     |
| Appendicitis.....           | 3         | 1  | 1  | 2  | 1  |    | 1    | 3  | 1  | 1  | 1  | 7  | 3           | 3  |      | 1  | 1    | 2  |       | 2  |       | ... | 20   | 14  | 14    | 20  | 23   | 11  | ...  | ... | ...  | ... |     |
| Asthma.....                 | 1         | 2  |    |    | 1  |    |      |    |    |    |    |    |             |    |      |    |      | 2  | 2     | 1  | ...   | 9   | 11   | 7   | 13    | 8   | 12   | 6   | ...  | ... | ...  | ... |     |
| Atelectasis Pulmonum.....   |           |    | 2  | 1  |    |    |      |    |    |    |    |    |             |    |      |    |      |    |       |    |       |     | 14   | ... | 9     | 5   | 8    | 6   | ...  | ... | ...  | ... |     |
| Atheroma of Arteries.....   |           |    |    |    |    |    |      |    |    |    |    |    |             |    |      |    |      |    |       |    |       |     | ...  | ... | ...   | ... | ...  | ... | ...  | ... | ...  | ... |     |
| Brain Diseases*.....        |           |    |    |    |    |    |      |    |    |    |    |    |             |    |      |    |      |    |       |    |       |     | ...  | ... | ...   | ... | ...  | ... | ...  | ... | ...  | ... | ... |

\* Not otherwise placed.



TABLE VII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.       | Jan. |    | Feb. |    | Mar. |    | Apr. |    | May. |    | June. |    | July. |    | Aug. |    | Sept. |    | Oct. |    | Nov. |    | Dec. |    | NATIVITY. |      | PARENT-AGE. |      | SEX. |     |    |
|------------------------|------|----|------|----|------|----|------|----|------|----|-------|----|-------|----|------|----|-------|----|------|----|------|----|------|----|-----------|------|-------------|------|------|-----|----|
|                        | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.    | F. | M.    | F. | M.   | F. | M.    | F. | M.   | F. | M.   | F. | M.   | F. | Am.       | For. | Am.         | For. | M.   | F.  |    |
|                        |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      |     |    |
| Brain, Congestion..... | ..   | .. | ..   | .. | 1    | 1  | 5    | .. | 1    | .. | 1     | .. | 1     | 1  | 4    | 2  | ..    | .. | 2    | 1  | ..   | 2  | ..   | .. | 18        | 3    | 7           | 14   | 15   | 6   |    |
| Softening.....         | ..   | .. | ..   | .. | 1    | .. | 2    | 3  | 2    | .. | 1     | .. | 1     | .. | 1    | .. | ..    | .. | 1    | 3  | ..   | 2  | ..   | .. | 12        | 6    | 10          | 8    | 9    | 9   |    |
| Inflammation.....      | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | 2     | 2  | ..   | .. | 3     | .. | ..   | .. | ..   | 1  | ..   | .. | 7         | 1    | 2           | 6    | 5    | 3   |    |
| Bronchitis.....        | 21   | 17 | 14   | 17 | 17   | 19 | 15   | 16 | 16   | 10 | 8     | 5  | 4     | 3  | 1    | 3  | 2     | 4  | 3    | 6  | 10   | 11 | 13   | 13 | 208       | 40   | 91          | 157  | 124  | 124 |    |
| Chronic.....           | 2    | 4  | 4    | 3  | 3    | 5  | 1    | 2  | 1    | 2  | 1     | 2  | 2     | 2  | ..   | .. | ..    | .. | 1    | .. | 2    | 1  | 7    | 23 | 24        | 25   | 22          | 19   | 28   | ..  |    |
| Calculi, Renal.....    | ..   | .. | ..   | .. | ..   | .. | 1    | 1  | ..   | .. | ..    | .. | ..    | .. | 1    | .. | ..    | .. | ..   | .. | ..   | 1  | ..   | 4  | ..        | 4    | ..          | 2    | 2    | 2   | .. |
| Cancer of Abdomen..... | ..   | .. | ..   | .. | 1    | .. | 2    | .. | ..   | .. | ..    | .. | ..    | .. | 1    | .. | ..    | .. | ..   | .. | 1    | .. | ..   | 3  | 2         | 2    | 2           | 3    | 1    | 4   | .. |
| Abdominal Viscera..... | ..   | .. | ..   | .. | 1    | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | 1     | .. | 1    | .. | ..   | .. | ..   | 2  | 1         | 2    | 1           | 2    | 1    | ..  | 3  |
| Back.....              | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | 1     | .. | ..    | .. | ..   | .. | ..    | .. | ..   | 1  | ..   | .. | ..   | 1  | ..        | 1    | ..          | 1    | ..   | 1   | .. |
| Bladder.....           | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | 1  | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | 1  | ..   | 1  | 1         | 1    | 1           | 1    | 1    | 1   | 1  |
| Breast.....            | 2    | .. | 2    | .. | 3    | .. | 3    | .. | 5    | .. | 2     | .. | 3     | .. | 6    | .. | 2     | .. | 3    | .. | 5    | .. | 5    | .. | 27        | 14   | 26          | 15   | ..   | 41  | .. |
| Colon.....             | ..   | .. | ..   | .. | ..   | .. | 1    | 1  | 1    | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ..   | 2  | 1         | 2    | 1           | 1    | 1    | 2   | .. |
| Ear.....               | ..   | .. | ..   | .. | ..   | .. | 1    | .. | 1    | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ..   | .. | ..        | ..   | 1           | 1    | 1    | 1   | .. |
| Face.....              | 1    | .. | 1    | .. | 1    | .. | ..   | .. | 2    | 2  | 2     | .. | ..    | .. | ..   | .. | ..    | .. | 1    | 1  | 1    | .. | ..   | 6  | 3         | 5    | 4           | 5    | 4    | 4   | 7  |
| Intestine.....         | ..   | .. | ..   | .. | 1    | 2  | 1    | 1  | ..   | .. | ..    | .. | 1     | 4  | ..   | .. | 1     | .. | ..   | .. | ..   | .. | ..   | 7  | 4         | 6    | 5           | 4    | 4    | 7   | .. |
| Jaw.....               | ..   | .. | ..   | .. | ..   | .. | ..   | .. | 1    | .. | 1     | .. | ..    | .. | 1    | .. | ..    | .. | ..   | .. | ..   | .. | ..   | 1  | 1         | 1    | 1           | 1    | 1    | 1   | 1  |
| Kidney.....            | 1    | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | 1  | ..   | 1  | 1         | 1    | 1           | 1    | 1    | 1   | 1  |
| Larynx.....            | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | 1  | ..   | .. | ..        | ..   | 1           | 1    | 1    | 1   | .. |
| Leg.....               | ..   | .. | ..   | .. | ..   | .. | 1    | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | 1    | .. | ..   | .. | 1         | ..   | 1           | 1    | 1    | 1   | 1  |
| Lip.....               | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | 1    | .. | ..   | .. | 1         | ..   | 1           | 1    | 1    | 1   | 1  |
| Liver.....             | 1    | .. | 3    | .. | 6    | 3  | ..   | .. | 3    | 3  | 1     | .. | 3     | 2  | 1    | 6  | 1     | 2  | 1    | 2  | 1    | 2  | ..   | 3  | 23        | 20   | 21          | 22   | 17   | 26  | .. |
| Lung.....              | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ..   | 1  | ..        | ..   | ..          | 1    | ..   | 1   | .. |
| Mouth.....             | 1    | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ..   | 1  | ..        | ..   | ..          | 1    | 1    | 1   | 1  |
| Neck.....              | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | 1    | .. | ..   | .. | ..   | 1  | ..        | 1    | 1           | 1    | 1    | 1   | 1  |

TABLE VII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.        | Jan. |    | Feb. |    | Mar. |    | Apr. |    | May. |    | June. |    | July. |    | Aug. |    | Sept. |    | Oct. |    | Nov. |    | Dec. |    | NATIVITY. |      | PARENT-AGE. |      | SEX. |    |
|-------------------------|------|----|------|----|------|----|------|----|------|----|-------|----|-------|----|------|----|-------|----|------|----|------|----|------|----|-----------|------|-------------|------|------|----|
|                         | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.    | F. | M.    | F. | M.   | F. | M.    | F. | M.   | F. | M.   | F. | M.   | F. | Am.       | For. | Am.         | For. | M.   | F. |
|                         |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Cancer of Nose.....     |      |    |      |    | 1    |    | 1    |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    | 3         |      | 3           |      | 2    | 1  |
| Omentum.....            | 1    | 1  |      |    |      |    |      |    |      |    | 1     |    |       |    |      |    |       |    |      |    |      |    |      |    | 5         |      | 5           |      | 2    | 5  |
| Ovary.....              |      |    | 1    |    |      |    |      |    | 1    |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    | 4         |      | 2           |      |      | 5  |
| Pelvic Viscera.....     |      |    |      |    |      |    |      |    |      |    |       |    |       |    | 1    |    |       |    |      |    |      |    |      |    | 2         |      | 2           |      |      | 2  |
| Penis.....              |      |    | 1    |    |      |    | 1    |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Pharynx.....            |      |    | 1    |    |      |    |      |    |      |    | 1     |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Pleura.....             |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Prostate.....           |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Pubes.....              |      |    |      |    |      |    |      |    |      |    |       |    |       |    | 1    |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Rectum.....             |      |    | 1    |    | 1    |    | 1    |    | 1    |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Sigmoid Flexure.....    |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Spleen.....             |      |    |      |    |      |    |      |    | 1    |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Stomach.....            | 2    | 3  | 1    | 4  | 3    | 5  | 1    | 2  | 1    | 2  | 1     | 7  | 1     | 7  | 3    | 2  | 3     | 3  | 1    | 1  | 3    | 1  | 3    | 5  | 38        |      | 32          | 41   | 38   | 35 |
| Thigh.....              |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    | 1         |      | 1           |      |      |    |
| Throat.....             |      |    |      |    |      |    |      |    |      | 1  |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Tongue.....             | 1    |    |      |    |      |    | 1    |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Uterus.....             | 2    | 3  |      | 3  | 4    | 6  | 1    | 6  | 1    | 3  | 3     | 3  | 3     | 3  | 6    | 5  | 3     | 4  | 3    | 4  | 3    | 4  | 3    | 26 |           | 17   | 21          | 22   | 43   |    |
| Vagina.....             |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    | 1         |      | 1           |      |      | 1  |
| Unspecified.....        |      |    |      |    |      |    |      |    |      |    |       |    |       |    | 1    |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Cancerum Oris.....      | 1    |    |      |    |      |    |      |    |      |    | 1     |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      | 1  |
| Carbuncle.....          |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Cellulitis, Pelvic..... |      |    |      |    |      |    |      |    |      |    |       |    |       |    | 2    |    | 1     |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Cerebritis.....         | 1    |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    | 1     |    |      |    |      |    |      |    |           |      |             |      |      |    |
| Childbirth*.....        |      |    |      |    |      |    |      | 1  |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |      |             |      |      |    |

\* Not otherwise specified.

TABLE VII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.               | Jan. |    | Feb. |    | Mar. |    | Apr. |    | May. |    | June. |    | July. |    | Aug. |    | Sept. |    | Oct. |    | Nov. |    | Dec. |     | NATIVITY |      | PARENT-AGE. |      | SEX. |     |
|--------------------------------|------|----|------|----|------|----|------|----|------|----|-------|----|-------|----|------|----|-------|----|------|----|------|----|------|-----|----------|------|-------------|------|------|-----|
|                                | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.    | F. | M.    | F. | M.   | F. | M.    | F. | M.   | F. | M.   | F. | M.   | F.  | Am.      | For. | Am.         | For. | M.   | F.  |
|                                |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Childbirth, Cesarean Section   |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Miscarriage                    |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Neoplasm of Cord, Embolism     |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Phlegmatia Dolens.             |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Placenta Prævia, Hemorrhage.   |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Post-Partum Hemorrhage.        |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Prolonged and Difficult Labor  |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Puerperal Eclampsia.           | 1    | 1  |      |    | 1    |    | 1    |    | 1    |    | 1     |    | 1     |    | 2    |    | 2     |    | 2    |    | 1    |    | 1    |     | 2        | 6    | 1           | 7    | ...  | 8   |
| Puerperal Nephritis.           |      |    |      |    | 1    | 1  | 1    | 4  | 1    | 1  | 2     | 2  | 2     | 3  | 2    | 3  | 2     | 2  | 2    | 2  | 2    | 2  | 1    | 2   | 6        | 1    | 7           | ...  | 8    |     |
| Puerperal Peritonitis.         | 1    | 1  |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     | 6        | 8    | 1           | 13   | ...  | 14  |
| Puerperal Septicæmia.          | 2    |    |      |    | 1    | 1  | 1    | 1  | 1    | 1  | 1     | 1  | 1     | 1  | 1    | 1  | 1     | 1  | 1    | 1  | 1    | 1  | 5    | 4   | 3        | 6    | ...         | 9    |      |     |
| Thrombus following Childbirth. | 4    | 3  |      |    | 3    | 4  | 7    | 7  | 7    | 5  | 4     | 4  | 4     | 4  | 4    | 4  | 4     | 4  | 4    | 4  | 4    | 4  | 1    | 28  | 13       | 15   | 26          | ...  | 41   |     |
| Vomiting of Pregnancy          |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Chlorosis.                     |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Cholera Infantum.              | 1    | 2  | 1    | 1  | 6    | 2  | 3    | 14 | 10   | 89 | 92    | 71 | 60    | 55 | 15   | 11 | 6     | 4  | 1    | 1  | 533  | 24 | 207  | 350 | 311      | 246  | ...         | ...  | ...  | ... |
| Morbus                         |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Chorea.                        |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Colitis (under 2 years).       |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Enteritis (under 2 years)      | 1    |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |
| Colitis (over 2 years).        |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |          |      |             |      |      |     |

TABLE VII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.                  | Jan. |      | Feb. |      | Mar. |      | Apr. |      | May. |      | June. |      | July. |      | Aug. |      | Sept. |      | Oct. |      | Nov. |      | Dec. |      | NATIVITY. |      | PARENT-AGE. |      | SEX. |      |    |    |    |   |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|------|-------|------|------|------|------|------|------|------|-----------|------|-------------|------|------|------|----|----|----|---|
|                                   | M.   | F.   | M.   | F.   | M.   | F.   | M.   | F.   | M.   | F.   | M.    | F.   | M.    | F.   | M.   | F.   | M.    | F.   | M.   | F.   | M.   | F.   | M.   | F.   | M.        | F.   | M.          | F.   | M.   | F.   |    |    |    |   |
|                                   | Am.  | For. | Am.  | For. | Am.  | For. | Am.  | For. | Am.  | For. | Am.   | For. | Am.   | For. | Am.  | For. | Am.   | For. | Am.  | For. | Am.  | For. | Am.  | For. | Am.       | For. | Am.         | For. | Am.  | For. |    |    |    |   |
| Colitis, Entero (over 2 years)... | 1    |      |      |      |      |      |      |      | 1    |      | 4     | 1    | 2     | 1    | 2    | 1    | 2     |      | 1    | 2    |      |      |      |      | 12        | 4    | 8           | 8    | 11   | 5    |    |    |    |   |
| Constipation...                   | 1    |      |      |      |      |      |      |      | 1    |      |       |      |       |      |      |      |       |      |      |      |      |      |      |      | 2         |      | 2           |      | 1    | 1    |    |    |    |   |
| Convulsions, Infantile...         | 4    | 3    | 5    | 1    | 1    | 2    | 1    | 2    | 3    | 2    | 1     | 1    | 5     | 3    | 3    |      |       |      |      |      |      |      |      |      | 43        |      | 27          | 16   | 27   | 16   |    |    |    |   |
| Croup...                          | 3    | 1    | 2    | 1    | 1    | 3    | 2    | 2    |      |      |       |      | 1     |      |      |      |       |      | 1    | 1    |      |      |      |      | 16        |      | 6           | 12   | 9    | 9    |    |    |    |   |
| Membranous                        | 5    | 3    | 6    | 2    | 1    | 3    | 2    | 1    | 2    | 2    | 2     | 2    | 1     | 2    | 5    | 3    | 5     | 2    | 7    | 5    | 8    | 9    |      |      | 74        | 4    | 32          | 46   | 44   | 34   |    |    |    |   |
| Cyanosis                          | 1    | 1    |      |      |      |      |      |      |      |      |       |      | 1     |      |      |      |       |      | 1    | 1    |      |      |      |      | 11        |      | 3           | 8    | 6    | 5    |    |    |    |   |
| Cystitis                          | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1     | 1    | 1     | 1    | 1    | 1    | 2     | 3    |      |      |      |      |      |      | 9         | 7    | 9           | 7    | 14   | 2    |    |    |    |   |
| Debility, General                 | 1    |      |      |      |      |      |      |      |      |      |       |      |       |      |      |      |       |      |      |      |      |      |      |      |           |      |             |      |      | 1    | 1  |    |    |   |
| Infantile                         | 2    | 2    | 8    | 7    | 11   | 2    | 8    | 3    | 5    | 3    | 5     | 6    | 4     | 6    | 8    | 6    | 3     | 4    | 3    | 8    | 10   | 8    | 8    | 5    | 12        | 6    | 70          | 65   | 75   | 60   |    |    |    |   |
| Asphyxia, Neonatorum              |      |      | 1    | 1    | 1    | 2    |      |      | 2    | 1    | 1     | 1    | 5     | 1    | 1    | 1    | 1     | 2    | 1    | 2    | 1    | 2    | 3    | 2    |           | 8    | 16          | 12   | 12   | 12   | 12 |    |    |   |
| Difficult Labor                   |      |      |      |      |      | 2    |      |      |      |      |       |      | 1     | 1    |      |      |       | 3    |      |      |      |      |      |      | 7         |      | 6           | 1    | 4    | 3    | 3  |    |    |   |
| Injury at Birth                   | 1    | 1    |      |      |      |      |      |      |      |      | 1     |      |       |      |      | 1    | 2     |      |      |      |      |      |      |      | 6         |      | 2           | 4    | 2    | 4    | 2  |    |    |   |
| Paralysis, Infantile              |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |      | 1     |      |      |      |      |      |      |      |           |      |             |      |      |      |    |    |    |   |
| Premature Birth                   | 7    | 8    | 5    | 4    | 11   | 4    | 4    | 7    | 5    | 5    | 6     | 1    | 1     | 9    | 7    | 7    | 6     | 11   | 3    | 10   | 5    | 7    | 6    | 2    |           | 2    |             | 1    |      |      | 2  |    |    |   |
| Sclerema Neonatorum               |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |      |       |      |      |      |      |      |      |      |           | 135  | 4           | 59   | 80   | 82   | 57 |    |    |   |
| Want of Care                      | 1    |      |      |      |      |      |      |      |      |      |       |      |       |      |      |      |       | 1    |      |      |      |      |      |      |           |      |             | 1    | 1    | 1    | 1  |    |    |   |
| Debility, Senile                  | 4    | 2    | 1    | 2    | 4    | 3    | 4    | 1    | 5    | 1    | 1     | 5    | 2     | 3    | 1    | 3    |       |      |      |      |      |      |      |      |           |      |             | 1    | 1    | 1    | 1  |    |    |   |
| Dementia                          | 2    |      |      |      | 2    | 1    |      | 1    |      |      |       | 2    |       | 1    | 1    | 1    | 3     |      |      |      |      |      |      |      |           |      |             | 7    | 11   | 6    | 6  |    |    |   |
| Senile                            | 1    |      | 1    | 1    | 1    |      |      |      |      |      | 3     |      | 2     |      | 3    | 1    | 2     | 1    | 1    | 2    |      |      |      |      |           |      |             | 13   | 7    | 13   | 5  |    |    |   |
| Diarrhoea                         | 1    |      |      |      |      |      |      |      |      |      |       |      |       | 3    | 3    | 3    | 1     | 1    | 2    |      |      |      |      |      |           |      |             | 8    | 7    | 6    | 9  | 4  | 11 | 5 |
| Chronic                           | 1    | 1    | 1    | 1    |      |      | 1    |      |      |      | 1     | 1    |       |      |      |      | 1     | 2    | 1    | 1    |      |      |      |      |           |      |             | 7    | 4    | 7    | 6  | 5  | 5  |   |
| Diabetes                          | 3    | 3    | 1    | 2    | 1    | 2    | 1    | 1    | 2    | 1    | 1     | 1    | 1     | 1    | 1    | 1    |       |      |      |      |      |      |      |      |           |      |             | 16   | 9    | 11   | 14 | 14 | 14 |   |
| Mellitus                          | 3    | 1    | 2    | 1    | 1    | 2    | 1    | 2    | 1    | 1    | 1     | 1    | 1     | 1    | 1    | 1    | 2     | 2    |      |      |      |      |      |      |           |      |             | 14   | 11   | 13   | 12 | 12 | 12 |   |
| Diphtheria                        | 5    | 7    | 5    | 5    | 2    | 2    | 5    | 5    | 4    | 1    | 2     | 4    | 1     | 1    | 2    | 4    | 5     | 1    | 11   | 2    | 10   | 5    | 10   | 13   | 105       | 7    | 44          | 68   | 62   | 50   | 50 | 50 |    |   |

TABLE VII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.               | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | NATIVITY. |      | PARENT-AGE. |      | SEX. |    |     |     |
|--------------------------------|------|------|------|------|------|-------|-------|------|-------|------|------|------|-----------|------|-------------|------|------|----|-----|-----|
|                                | M.   | F.   | M.   | F.   | M.   | F.    | M.    | F.   | M.    | F.   | M.   | F.   | Am.       | For. | Am.         | For. | M.   | F. |     |     |
|                                |      |      |      |      |      |       |       |      |       |      |      |      |           |      |             |      |      |    |     |     |
| Dysentery.....                 | 2    |      |      |      | 1    | 1     | 7     | 13   | 8     | 6    | 8    | 9    | 11        | 2    | 2           | 1    | 38   | 48 | 39  | 47  |
| Embolism, Arterial.....        | 1    |      |      |      |      |       |       | 1    |       |      |      |      | 1         | 1    | 1           | 1    | 4    | 5  | 4   | 5   |
| Cerebral.....                  |      | 1    | 1    |      | 1    |       |       | 1    | 1     | 1    |      |      | 1         |      |             |      | 6    | 3  | 4   | 5   |
| Emphysema.....                 |      |      |      |      | 2    | 1     | 1     | 1    |       |      |      |      |           |      |             | 1    | 4    | 3  | 4   | 4   |
| Empyema.....                   |      | 1    | 1    |      |      |       |       |      |       |      |      |      |           |      |             |      | 3    | 1  | 3   | 1   |
| Endocarditis.....              | 5    | 1    | 6    | 4    | 7    | 5     | 3     | 7    | 4     | 6    | 3    | 6    | 1         | 4    | 4           | 6    | 55   | 54 | 49  | 60  |
| Enteritis (under 2 years)..... | 1    |      | 2    | 2    |      |       | 3     | 1    | 3     | 8    | 7    | 4    | 2         | 4    | 1           | 3    | 47   | 4  | 22  | 29  |
| Gastro (under 2 years).....    | 2    | 4    | 2    | 2    | 2    | 1     | 5     | 3    | 9     | 6    | 19   | 5    | 7         | 9    | 5           | 3    | 111  | 3  | 49  | 65  |
| Enteritis (over 2 years).....  |      |      | 1    |      | 1    | 1     | 2     | 1    | 1     | 2    | 3    | 1    | 4         | 3    | 2           | 1    | 12   | 15 | 6   | 21  |
| Gastro (over 2 years).....     |      |      | 2    |      | 3    | 3     | 2     | 4    | 2     | 3    | 4    | 1    | 3         | 2    | 3           | 1    | 24   | 17 | 12  | 29  |
| Tubercular.....                | 1    | 2    |      |      |      |       | 1     | 1    | 1     | 1    | 1    | 1    | 1         | 1    | 1           | 7    | 5    | 3  | 9   |     |
| Epilepsy.....                  |      | 1    | 1    | 2    | 1    | 2     | 1     | 1    | 2     | 1    | 1    | 2    | 1         | 1    | 1           | 16   | 7    | 8  | 15  |     |
| Erysipelas.....                |      |      | 1    |      | 1    | 1     |       | 1    |       |      |      |      |           |      | 5           | ...  | 1    | 4  | 2   | 3   |
| Head and Face.....             |      | 2    | 2    | 1    | 2    | 1     | 1     |      |       |      |      |      |           |      | 8           | 3    | 4    | 7  | 6   | 5   |
| Phlegmonous.....               |      |      |      |      |      | 1     |       |      |       |      |      |      |           |      | ...         | 1    | ...  | 1  | ... | 1   |
| Fever, Malarial.....           |      |      |      |      |      | 3     | 1     | 1    | 1     | 1    | 2    | 2    | 1         | 1    | 10          | 3    | 7    | 6  | ... | 8   |
| Typhoid.....                   | 5    | 2    | 3    | 3    | 4    | 2     | 5     | 8    | 6     | 2    | 3    | 4    | 12        | 7    | 10          | 8    | 5    | 10 | 38  | 57  |
| Fibroid of Uterus.....         |      |      |      |      |      |       |       | 1    |       |      |      |      | 1         |      |             | 2    | 11   | 5  | 10  | 16  |
| Fistula in Ano.....            |      |      |      |      |      |       |       | 1    |       |      |      |      |           |      |             | 1    | 1    | 1  | 1   | 2   |
| Gall Stones.....               |      |      |      |      |      |       |       |      |       |      |      |      |           |      |             | 1    | 1    | 1  | 1   | 2   |
| Gangrene of Foot.....          |      | 1    | 1    |      | 1    |       |       | 2    |       |      |      |      | 1         |      |             | 5    | 1    | 5  | 1   | 6   |
| Leg.....                       |      |      |      |      |      |       |       |      |       |      |      |      |           |      |             | 1    | 2    | 1  | 2   | ... |
| Senile.....                    |      |      |      |      |      |       |       |      |       |      |      |      |           |      |             | 1    | 3    | 1  | 1   | 3   |
| Gastritis.....                 | 1    | 1    | 3    | 2    | 2    | 1     | 3     | 2    | 4     | 5    | 2    | 3    | 1         | 2    | ...         | 22   | 17   | 27 | 14  | 30  |



TABLE VII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.          | Jan. |    | Feb. |    | Mar. |    | Apr. |    | May. |    | June. |    | July. |    | Aug. |    | Sept. |    | Oct. |    | Nov. |    | Dec. |    | NATIVITY. |     | PARENT-AGE. |     | SEX. |     |     |
|---------------------------|------|----|------|----|------|----|------|----|------|----|-------|----|-------|----|------|----|-------|----|------|----|------|----|------|----|-----------|-----|-------------|-----|------|-----|-----|
|                           | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.    | F. | M.    | F. | M.   | F. | M.    | F. | M.   | F. | M.   | F. | M.   | F. | M.        | F.  | M.          | F.  | M.   | F.  |     |
|                           |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |     |             |     |      |     |     |
| Goitre .....              |      |    | 1    |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    | 1         | ... | 1           | ... | ...  | 1   |     |
| Exophthalmic.....         |      |    |      |    |      |    | 1    |    |      |    |       |    |       |    |      |    |       |    |      | 1  |      |    |      |    | 1         | 1   |             | ... | 2    |     |     |
| Hæmatemesis.....          |      |    | 1    |    |      |    |      |    |      |    |       |    |       |    | 1    |    |       |    |      |    |      |    |      |    | 2         | ... | 2           | ... | ...  | 2   |     |
| Hæmophilia.....           |      |    |      |    |      |    |      |    |      |    | 1     |    |       |    |      |    | 1     |    | 1    |    |      |    |      |    | 4         | ... | 4           | ... | 1    | 3   |     |
| Hæmoptysis*.....          |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 1  | ...       | 1   | ...         | ... | ...  | 1   |     |
| Heart Diseases.....       | 10   | 18 | 12   | 14 | 11   | 17 | 12   | 15 | 9    | 9  | 6     | 12 | 10    | 15 | 13   | 12 | 12    | 14 | 9    | 8  | 8    | 9  | 13   | 21 | 168       | 121 | 137         | 152 | 125  | 164 |     |
| Dilatation.....           | 1    | 3  |      |    |      |    | 1    | 1  |      |    |       |    | 1     |    |      |    |       |    | 1    |    |      |    |      | 7  | 8         | 5   | 10          | 8   | 7    | ... |     |
| Enlargement.....          |      |    |      |    |      |    | 1    | 1  |      |    |       |    |       |    |      |    | 1     |    |      |    |      |    |      | 1  | 2         | 1   | 2           | 2   | 1    | ... |     |
| Fatty Degeneration.....   | 1    | 1  |      | 1  | 2    | 1  | 2    | 1  | 2    | 3  | 1     | 3  |       |    |      |    | 1     |    | 2    | 4  |      |    |      | 1  | 2         | 18  | 10          | 16  | 12   | 11  | 17  |
| Hypertrophy.....          |      |    |      |    |      |    | 1    |    |      |    |       | 1  |       |    |      |    |       |    |      |    |      |    |      | 1  | 2         | 1   | 2           | ... | 3    | ... |     |
| Valvular Disease.....     | 7    | 6  | 6    | 6  | 7    | 9  | 7    | 6  | 12   | 7  | 11    | 10 | 6     | 6  | 2    | 5  | 2     | 3  | 8    | 3  | 5    | 7  | 7    | 6  | 84        | 70  | 68          | 86  | 80   | 74  |     |
| Hemiplegia.....           |      |    |      |    |      | 1  | 2    | 1  | 1    | 1  |       |    | 1     |    |      | 2  | 1     | 1  | 1    |    | 1    |    |      | 10 | 2         | 8   | 4           | 6   | 6    | ... |     |
| Hemorrhage, Multiple..... |      |    |      |    |      |    | 1    |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 1  | ...       | 1   | ...         | 1   | ...  | ... |     |
| Cerebral.....             | 12   | 4  | 7    | 3  | 10   | 11 | 13   | 8  | 5    | 4  | 7     | 4  | 8     | 6  | 3    | 2  | 5     | 4  | 7    | 1  | 8    | 11 | 9    | 99 | 64        | 85  | 78          | 80  | 83   | ... |     |
| Internal.....             |      |    | 1    |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 1  | ...       | 1   | ...         | 1   | ...  | ... |     |
| Umbilical.....            |      |    | 1    |    | 1    |    |      |    |      |    |       |    | 1     |    | 1    |    |       |    |      |    |      |    |      | 5  | ...       | ... | ...         | 5   | 4    | 1   | ... |
| Hepatitis.....            |      |    | 2    |    | 2    |    |      | 1  | 1    | 1  |       | 1  | 1     |    | 1    |    | 3     | 1  |      | 3  | 2    |    |      | 7  | 10        | 7   | 10          | 9   | 8    | ... |     |
| Hernia.....               | 1    |    |      |    |      | 2  | 2    | 2  | 1    | 1  |       |    |       |    | 1    | 1  |       |    |      |    |      |    |      | 7  | 7         | 5   | 9           | 4   | 10   | ... |     |
| Femoral.....              |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    | 1    |    | 1    | 1  | 1    | 2  | 1         | 2   | 1           | ... | 3    | ... |     |
| Inguinal.....             |      |    | 1    |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 2  | ...       | 2   | ...         | 2   | ...  | 2   | ... |
| Umbilical.....            | 1    | 1  |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    | 1    |    |      | 2  | 1         | ... | ...         | 3   | 1    | 2   | ... |
| Hip-joint Disease.....    |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 1  | ...       | ... | ...         | 1   | 1    | ... | ... |
| Hodgkin's Disease.....    |      |    |      |    | 1    |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 1  | ...       | 1   | ...         | 1   | ...  | 1   | ... |

\* Not otherwise placed.



TABLE VII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.                     | Jan. |    | Feb. |    | Mar. |    | Apr. |    | May. |    | June. |    | July. |    | Aug. |    | Sept. |    | Oct. |    | Nov. |    | Dec. |    | NATIVITY. |     | PARENT-AGE. |     | SEX. |     |
|--------------------------------------|------|----|------|----|------|----|------|----|------|----|-------|----|-------|----|------|----|-------|----|------|----|------|----|------|----|-----------|-----|-------------|-----|------|-----|
|                                      | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.    | F. | M.    | F. | M.   | F. | M.    | F. | M.   | F. | M.   | F. | M.   | F. | M.        | F.  | M.          | F.  | M.   | F.  |
|                                      |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |    |           |     |             |     |      |     |
| Homicide.....                        | ..   | .. | ..   | .. | 1    | .. | 1    | .. | ..   | .. | 2     | .. | 1     | .. | 2    | 1  | 2     | .. | ..   | .. | ..   | .. | ..   | .. | 8         | 2   | 7           | 3   | 9    | 1   |
| Hydrocephalus.....                   | ..   | 2  | 1    | 3  | 1    | 1  | ..   | 1  | ..   | .. | 2     | 2  | 1     | 1  | ..   | 1  | ..    | .. | 1    | 1  | 1    | .. | 1    | 19 | ..        | 9   | 10          | 11  | 8    | 8   |
| Hydronephrosis.....                  | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ..   | 1  | ..        | 1   | ..          | 1   | ..   | 1   |
| Icterus Neonatorum.....              | 1    | 2  | 2    | .. | 2    | 3  | 1    | 3  | ..   | 1  | 1     | .. | 1     | 1  | ..   | 1  | 1     | .. | ..   | .. | 1    | 1  | ..   | 20 | ..        | 7   | 13          | 12  | 8    | 9   |
| Indigestion, Acute.....              | ..   | 1  | ..   | .. | ..   | .. | ..   | 1  | ..   | 1  | 1     | .. | ..    | .. | 3    | .. | ..    | .. | 2    | .. | ..   | .. | 1    | 5  | 4         | 3   | 6           | ..  | ..   | ..  |
| Infantile.....                       | 1    | 3  | 1    | 1  | 6    | 4  | 3    | 1  | 3    | .. | 5     | 6  | 7     | 6  | 1    | 2  | 3     | 5  | 3    | .. | 2    | 1  | 2    | 3  | 67        | 2   | 35          | 34  | 37   | 32  |
| Influenza.....                       | 2    | 3  | 9    | 7  | 21   | 32 | 54   | 80 | 12   | 14 | 1     | 7  | ..    | .. | 2    | 1  | ..    | 1  | ..   | 1  | 2    | 2  | 4    | 1  | 150       | 105 | 120         | 135 | 108  | 147 |
| Intestinal Obstruction.....          | 2    | .. | ..   | 1  | 2    | .. | 1    | 1  | ..   | .. | ..    | .. | 2     | .. | 2    | .. | 2     | .. | 1    | 1  | 1    | 1  | ..   | 12 | 5         | 7   | 10          | 12  | 5    | 5   |
| Ulceration.....                      | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | 1  | ..    | 1  | 1    | 1  | 2    | .. | ..   | 5  | ..        | 4   | 1           | 4   | 1    | 1   |
| Insanity.....                        | ..   | .. | ..   | .. | ..   | .. | ..   | 2  | 2    | 1  | 1     | 1  | 1     | .. | 3    | 1  | 1     | 1  | 1    | 1  | ..   | .. | 1    | 14 | 3         | 14  | 3           | 10  | 7    | 7   |
| General Paralysis of the Insane..... | ..   | 1  | ..   | 1  | 1    | 2  | ..   | .. | ..   | .. | 1     | .. | ..    | .. | 3    | 2  | 1     | .. | 2    | .. | 1    | .. | 2    | .. | 10        | 6   | 7           | 9   | 13   | 3   |
| Intussusception.....                 | ..   | .. | ..   | .. | 1    | 1  | ..   | .. | ..   | .. | 1     | .. | 1     | .. | 1    | 1  | 2     | .. | 1    | 1  | ..   | .. | ..   | 8  | 2         | 5   | 5           | 5   | 5    | 5   |
| Kidney Diseases*.....                | ..   | .. | ..   | .. | 1    | .. | ..   | 1  | ..   | .. | 1     | 1  | ..    | .. | ..   | .. | ..    | .. | 1    | 1  | ..   | .. | ..   | 5  | ..        | 4   | 1           | 1   | 4    | 4   |
| Addison's Disease.....               | ..   | .. | ..   | .. | ..   | .. | ..   | .. | 1    | .. | 1     | .. | ..    | .. | ..   | .. | ..    | .. | 1    | .. | ..   | .. | ..   | 2  | ..        | 1   | 1           | 1   | 2    | ..  |
| Bright's Disease.....                | 4    | 6  | 18   | 7  | 12   | 10 | 8    | 9  | 10   | 7  | 8     | 7  | 5     | 5  | 10   | 5  | 8     | 10 | 6    | 5  | 17   | 9  | 10   | 7  | 122       | 81  | 96          | 107 | 116  | 87  |
| Granular Degeneration.....           | ..   | .. | ..   | .. | ..   | .. | ..   | 1  | ..   | .. | ..    | .. | ..    | .. | ..   | .. | 1     | .. | ..   | .. | ..   | .. | 1    | 1  | ..        | 1   | ..          | ..  | ..   | 1   |
| Inflammation.....                    | ..   | .. | ..   | .. | 1    | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ..   | .. | 1         | ..  | ..          | ..  | ..   | ..  |
| Laryngitis.....                      | 2    | 2  | ..   | 1  | ..   | 2  | ..   | 2  | ..   | .. | ..    | .. | ..    | .. | 1    | .. | ..    | .. | 1    | .. | 1    | .. | ..   | 12 | ..        | 6   | 6           | 7   | 5    | 2   |
| Tubercular.....                      | 1    | .. | ..   | .. | 1    | 1  | 1    | 1  | 1    | 1  | 1     | 1  | 1     | .. | ..   | .. | 1     | .. | 1    | .. | ..   | .. | ..   | 6  | 2         | 4   | 4           | 4   | 5    | 2   |
| Liver Diseases*.....                 | ..   | .. | ..   | .. | ..   | 1  | 2    | .. | ..   | .. | ..    | 1  | 1     | 3  | ..   | .. | ..    | .. | ..   | 1  | ..   | .. | ..   | 7  | 2         | 7   | 2           | 4   | 5    | 2   |
| Atrophy, Acute, Yellow.....          | 1    | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | 1     | .. | ..    | 1  | 1    | 1  | ..    | 1  | ..   | .. | ..   | 1  | 2    | 3  | 4         | 1   | 6           | 5   | 2    | 2   |
| Cirrhosis.....                       | 3    | 2  | 2    | 1  | 3    | 1  | 1    | 1  | 1    | 1  | 4     | 1  | 5     | 1  | 1    | .. | 2     | .. | 2    | 4  | 6    | .. | 2    | 25 | 20        | 14  | 31          | 32  | 13   | 13  |

\* Not otherwise placed.

TABLE VII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.          |    | Jan.  | Feb.  | Mar.  | Apr.  | May.  | June. | July. | Aug.  | Sept. | Oct.  | Nov.  | Dec.  | NATIVITY. |          | PARENT-AGE. |          | SEX. |    |
|---------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|----------|-------------|----------|------|----|
|                           |    | M. F. | M. F. | M. F. | M. F. | M. F. | M. F. | M. F. | M. F. | M. F. | M. F. | M. F. | M. F. | Am. For.  | Am. For. | Am. For.    | Am. For. | M.   | F. |
| Liver, Congestion.....    |    |       | 1     | 1     | 1     |       |       | 1     |       |       |       |       |       | 1         | 4        | 1           | 4        | 1    | 4  |
| Enlargement.....          |    |       |       |       |       |       |       | 1     |       |       |       |       |       | 1         |          | 1           |          | 1    |    |
| Hypertrophy.....          | 1  |       |       | 1     | 1     |       | 1     | 2     |       |       |       |       |       | 2         | 3        |             | 5        |      | 5  |
| Inflammation.....         |    |       |       |       |       |       |       |       |       |       | 1     |       |       | 1         |          | 1           |          |      | 1  |
| Sclerosis.....            | 1  |       | 1     | 1     |       |       |       |       | 1     |       |       |       |       | 3         |          | 1           |          | 2    | 1  |
| Locomotor Ataxia.....     | 2  |       |       | 1     | 1     |       |       |       |       |       |       | 2     | 1     | 6         | 1        | 5           | 2        | 6    | 1  |
| Leukemia.....             |    |       |       |       |       |       |       |       |       | 1     |       |       |       | 1         |          | 1           |          | 1    |    |
| Malaria.....              | 1  |       | 1     |       |       | 1     | 1     | 1     |       |       | 1     |       |       | 7         | 1        | 6           | 2        | 4    | 4  |
| Malassimilation.....      | 5  | 1     | 3     | 6     | 4     | 8     | 3     | 7     | 5     | 2     | 5     | 9     | 7     | 16        | 11       | 8           | 15       | 13   | 12 |
| Malformation, Imperforate |    |       |       |       |       |       |       |       |       |       |       |       |       | 166       | 1        | 77          | 90       | 76   | 91 |
| Anus.....                 |    |       |       | 1     |       | 1     | 1     |       |       |       |       |       |       | 5         |          | 3           | 2        | 4    | 1  |
| Arterial Duct.....        |    |       |       |       |       |       | 1     |       |       |       |       |       |       | 1         |          |             | 1        | 1    |    |
| Foramen Ovale.....        | 4  | 1     | 1     | 1     | 3     | 1     | 3     | 1     | 1     | 4     | 1     | 1     | 1     | 24        | 4        | 16          | 12       | 19   | 9  |
| Heart.....                |    |       |       |       |       | 1     |       |       |       |       |       |       |       | 1         |          | 1           |          | 1    |    |
| Hemicephalus.....         |    |       |       |       |       |       |       |       |       |       |       |       | 1     | 1         |          |             | 1        | 1    |    |
| Spina Bifida.....         | 1  |       | 1     | 1     |       |       | 2     | 1     |       |       | 1     |       | 1     | 8         |          | 4           | 4        | 4    | 4  |
| Urethra.....              |    |       |       |       |       |       |       |       |       |       |       | 1     |       | 1         |          |             |          | 1    |    |
| Unspecified.....          | 1  |       |       |       |       |       |       |       |       |       |       |       |       | 2         |          |             |          | 1    |    |
| Mania, Acute.....         |    |       |       |       |       |       |       |       |       |       |       |       |       | 2         |          |             | 2        | 1    | 1  |
| Chronic.....              |    |       |       |       |       |       |       |       |       |       |       |       |       | 2         |          |             | 2        | 2    | 2  |
| Measles.....              | 19 | 20    | 26    | 33    | 24    | 25    | 9     | 6     | 6     | 2     | 3     | 1     | 1     | 5         | 3        | 3           | 5        | 1    | 7  |
| Melancholia.....          | 1  |       | 1     | 1     |       |       | 2     |       |       |       |       |       |       | 169       | 16       | 79          | 106      | 87   | 98 |
| Meningitis.....           | 5  | 9     | 8     | 5     | 11    | 5     | 11    | 5     | 7     | 6     | 9     | 10    | 7     | 6         | 2        | 4           | 4        | 5    | 3  |
| Cerebro-Spinal.....       | 2  |       | 2     |       | 2     | 4     | 2     | 1     |       |       |       |       |       | 133       | 1        | 17          | 17       | 25   | 9  |

TABLE VII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.             | Jan. |    | Feb. |    | Mar. |    | Apr. |     | May. |    | June. |    | July. |    | Aug. |    | Sept. |    | Oct. |    | Nov. |    | Dec. |     | NATIVITY. |      | PARENT-AGE. |      | SEX. |     |
|------------------------------|------|----|------|----|------|----|------|-----|------|----|-------|----|-------|----|------|----|-------|----|------|----|------|----|------|-----|-----------|------|-------------|------|------|-----|
|                              |      |    |      |    |      |    |      |     |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |           |      |             |      |      |     |
|                              | M.   | F. | M.   | F. | M.   | F. | M.   | F.  | M.   | F. | M.    | F. | M.    | F. | M.   | F. | M.    | F. | M.   | F. | M.   | F. | M.   | F.  | Am.       | For. | Am.         | For. | M.   | F.  |
| Meningitis, Spinal .....     | ..   | .. | ..   | .. | 1    | 2  | 2    | ..  | ..   | .. | ..    | .. | 2     | 2  | 3    | .. | ..    | .. | 2    | .. | ..   | .. | 1    | 2   | 18        | ..   | 6           | 12   | 10   | 8   |
| Tubercular .....             | 2    | 2  | 4    | 3  | 3    | 5  | 2    | 4   | 3    | 2  | 6     | .. | 2     | 6  | ..   | 3  | ..    | 2  | 4    | 4  | 3    | 2  | 1    | 2   | 64        | 5    | 32          | 37   | 38   | 31  |
| Myelitis .....               | ..   | 1  | ..   | .. | ..   | .. | ..   | ..  | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ..   | 1   | ..        | 1    | ..          | ..   | ..   | 1   |
| Myocarditis .....            | ..   | .. | ..   | .. | 1    | .. | ..   | ..  | ..   | .. | 1     | .. | 1     | 1  | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ..   | 5   | ..        | 4    | 4           | 5    | 3    | 3   |
| Nephritis .....              | 5    | 7  | 6    | 2  | 4    | 6  | 7    | 9   | 3    | 6  | 5     | 3  | 3     | 3  | 5    | 4  | 5     | 2  | 5    | 2  | 3    | 7  | 8    | 70  | 47        | 43   | 74          | 58   | 59   | 59  |
| Chronic .....                | 7    | 3  | 6    | 5  | 8    | 10 | 9    | 10  | 9    | 3  | 6     | 5  | 10    | 12 | 7    | 4  | 7     | 9  | 6    | 6  | 4    | 8  | 6    | 108 | 57        | 86   | 79          | 89   | 76   | 76  |
| Neuralgia, Exhaustion .....  | ..   | .. | ..   | .. | ..   | .. | ..   | ..  | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | 1    | ..  | ..        | ..   | 1           | ..   | ..   | 1   |
| Neuritis, Multiple .....     | ..   | .. | ..   | .. | ..   | .. | ..   | ..  | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | 1    | ..  | ..        | ..   | 1           | ..   | ..   | 1   |
| Old Age .....                | 8    | 17 | 5    | 10 | 8    | 14 | 7    | 11  | 11   | 6  | 3     | 9  | 4     | 9  | 7    | 4  | 8     | 6  | 4    | 12 | 4    | 8  | 9    | 119 | 79        | 118  | 80          | 78   | 120  | 120 |
| Ophthalmia, Neonatorum ..... | ..   | .. | ..   | .. | ..   | 1  | ..   | ..  | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ..   | 1   | ..        | 1    | ..          | 1    | ..   | 1   |
| Otitis, Media .....          | 1    | .. | ..   | .. | ..   | .. | ..   | ..  | 1    | .. | ..    | .. | ..    | .. | 2    | .. | ..    | .. | ..   | .. | 1    | 1  | ..   | 4   | 2         | 1    | 5           | 4    | ..   | 2   |
| Ovaritis .....               | ..   | .. | ..   | .. | ..   | .. | ..   | ..  | 1    | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ..   | 1   | ..        | ..   | 1           | ..   | ..   | 1   |
| Paresis .....                | 1    | .. | 1    | 1  | 1    | .. | ..   | ..  | ..   | 2  | ..    | 2  | 6     | .. | 2    | .. | 3     | 1  | ..   | .. | ..   | .. | ..   | 11  | 6         | 10   | 7           | 14   | 3    | 3   |
| Pericarditis .....           | 1    | 1  | ..   | .. | ..   | .. | ..   | 1   | ..   | .. | 2     | .. | ..    | 1  | 1    | .. | ..    | .. | ..   | .. | ..   | .. | 1    | 5   | 3         | 4    | 4           | 4    | 4    | 4   |
| Peritonitis .....            | 1    | 3  | 1    | 1  | 1    | 1  | 2    | 2   | 1    | 2  | 1     | 1  | 3     | 1  | 3    | .. | 3     | .. | ..   | .. | ..   | .. | 13   | 10  | 4         | 19   | 8           | 15   | 8    | 15  |
| Tubercular .....             | 1    | .. | ..   | .. | 1    | .. | ..   | 1   | ..   | .. | ..    | .. | 3     | .. | 2    | .. | ..    | .. | ..   | .. | ..   | .. | 10   | 1   | 7         | 4    | 3           | 8    | 8    | 8   |
| Pertussis .....              | 2    | 5  | 1    | 7  | 5    | 11 | 5    | 5   | 3    | 4  | 2     | 4  | 4     | 3  | 6    | 4  | 7     | 1  | 1    | .. | 2    | 2  | 2    | 80  | 6         | 34   | 52          | 31   | 55   | 55  |
| Phlebitis .....              | ..   | .. | ..   | .. | ..   | .. | ..   | ..  | ..   | .. | 2     | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | 1    | 1   | 1         | 1    | 1           | ..   | ..   | 2   |
| Pleurisy .....               | 2    | .. | 2    | 1  | 2    | .. | ..   | 3   | ..   | 3  | 1     | .. | 2     | 1  | ..   | 1  | ..    | .. | 2    | .. | ..   | 1  | ..   | 8   | 9         | 4    | 13          | 12   | 5    | 5   |
| Pneumonia .....              | 67   | 61 | 71   | 64 | 93   | 80 | 91   | 118 | 40   | 35 | 17    | 21 | 6     | 13 | 13   | 11 | 4     | 5  | 16   | 11 | 20   | 32 | 41   | 36  | 679       | 287  | 373         | 593  | 479  | 487 |
| Potts' Disease .....         | ..   | .. | ..   | .. | 1    | .. | ..   | 3   | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | 3    | 1   | 2         | 2    | 3           | 1    | 1    | 1   |
| Prostate Disease .....       | 1    | .. | 2    | .. | ..   | .. | ..   | 1   | ..   | .. | ..    | .. | 3     | .. | 3    | .. | ..    | .. | ..   | .. | ..   | .. | 7    | 3   | 2         | 7    | 3           | 10   | ..   | ..  |
| Purpura Hemorrhagica .....   | ..   | .. | ..   | .. | 1    | 1  | ..   | ..  | ..   | .. | ..    | .. | ..    | .. | 2    | .. | 1     | .. | ..   | .. | ..   | .. | 3    | 2   | 2         | 2    | 3           | 4    | ..   | ..  |
| Pyæmia .....                 | ..   | .. | ..   | .. | ..   | .. | ..   | ..  | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | 1    | .. | 1    | ..  | 1         | ..   | 1           | ..   | ..   | 1   |

TABLE VII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.           | Jan. |    | Feb. |    | Mar. |    | Apr. |    | May. |    | June. |    | July. |    | Aug. |    | Sept. |    | Oct. |    | Nov. |    | Dec. |     | NATIVITY. |      | PARENT-AGE. |      | SEX. |     |     |
|----------------------------|------|----|------|----|------|----|------|----|------|----|-------|----|-------|----|------|----|-------|----|------|----|------|----|------|-----|-----------|------|-------------|------|------|-----|-----|
|                            | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.    | F. | M.    | F. | M.   | F. | M.    | F. | M.   | F. | M.   | F. | M.   | F.  | Am.       | For. | Am.         | For. | M.   | F.  |     |
|                            |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     |           |      |             |      |      |     |     |
| Pyosalpinx.....            |      |    | 1    |    | 1    |    | 2    |    |      |    | 1     |    | 1     |    |      |    |       |    |      |    | 1    |    |      |     | 8         | 1    | 5           | 4    | ...  | 9   |     |
| Quinsy.....                |      |    |      |    |      |    | 1    |    | 2    |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     | 3         | 1    | 2           | 2    | ...  | 4   |     |
| Rachitis.....              |      |    |      |    |      |    | 1    |    | 1    |    |       |    | 2     |    |      |    |       |    |      |    |      |    |      |     | 6         | ...  | 1           | 5    | 5    | 1   |     |
| Rheumatism.....            |      |    | 1    | 1  | 1    | 1  | 1    | 1  | 1    | 1  | 1     | 1  | 1     | 1  | 1    | 1  | 1     | 1  | 1    | 1  | 1    | 1  | 1    | 4   | 5         | 3    | 6           | 3    | 6    | 1   |     |
| Acute.....                 | 1    | 1  | 2    | 2  | 1    | 1  | 1    | 1  | 1    | 1  | 1     | 1  | 1     | 1  | 1    | 1  | 1     | 1  | 1    | 1  | 1    | 1  | 1    | 7   | 8         | 4    | 11          | 7    | 8    | 6   |     |
| Chronic.....               | 2    |    | 1    |    | 1    | 1  | 2    | 2  |      |    | 1     |    |       |    | 1    | 1  | 1     | 1  | 2    | 1  |      |    |      | 12  | 2         | 10   | 4           | 7    | 7    | 7   |     |
| Rodent Ulcer.....          |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    | 1    |    |      |    |      | 1   | ...       | ...  | ...         | 1    | 1    | ... |     |
| Sarcoma of Face.....       |      |    |      |    |      |    |      |    | 1    |    |       |    |       |    |      |    |       |    |      |    |      |    |      | ... | ...       | 1    | 1           | 1    | 1    | ... | ... |
| Jaw.....                   |      |    |      |    |      |    |      |    |      |    |       |    | 1     | 1  |      |    |       |    |      |    |      |    |      | 1   | 1         | 1    | 1           | 1    | 1    | ... |     |
| Liver.....                 |      |    |      |    |      |    | 1    |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | ... | ...       | 1    | 1           | 1    | 1    | ... | ... |
| Pelvis.....                |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 2   | ...       | ...  | 2           | 1    | 1    | ... | ... |
| Rectum.....                |      |    | 1    |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 1   | ...       | ...  | ...         | 1    | 1    | ... | ... |
| Stomach.....               |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    | 1     |    |      |    |      |    |      | 1   | ...       | ...  | ...         | 1    | 1    | ... | ... |
| Testicle.....              |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 1   | ...       | ...  | ...         | 1    | ...  | ... | ... |
| Uterine Organs.....        |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      | 1  |       |    |      |    |      |    |      | 1   | ...       | ...  | ...         | 1    | ...  | ... | ... |
| Osteo, Ileum and Ischeum.. |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       | 1  |      |    |      |    |      | 1   | ...       | ...  | ...         | 1    | ...  | ... | ... |
| Scarlet Fever.....         | 3    | 1  | 5    | 2  | 3    | 2  | 7    | 1  | 2    | 1  | 1     | 1  | 1     | 1  | 1    | 1  | 1     | 1  | 3    |    |      |    |      | 32  | 2         | 22   | 12          | 24   | 10   | ... | ... |
| Sclerosis, Arterial.....   |      |    | 2    | 1  |      |    | 1    |    |      |    |       |    |       | 1  |      | 1  |       | 1  |      | 1  |      |    |      | 3   | 4         | 2    | 5           | 3    | 4    | ... | ... |
| Spinal.....                |      |    | 1    | 1  |      |    |      |    |      |    | 1     |    |       | 1  | 1    | 1  | 1     | 3  |      |    |      |    |      | 5   | 4         | 5    | 4           | 6    | 3    | ... | ... |
| Scorbutus.....             |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 1   | ...       | ...  | ...         | 1    | ...  | ... | ... |
| Scrofula.....              |      |    |      |    | 1    | 1  |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 2   | ...       | 2    | ...         | 1    | 1    | ... | ... |
| Septicæmia.....            |      |    |      |    | 1    |    |      | 1  |      |    |       |    | 1     | 1  |      |    |       |    |      |    |      |    |      | 2   | 1         | 2    | 1           | 2    | 1    | ... | ... |
| Small-pox.....             |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | ... | ...       | ...  | 1           | 1    | ...  | ... | ... |
| Spinal Diseases*.....      | 1    |    | 1    |    | 1    |    | 1    |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 6   | 1         | 1    | 1           | 1    | 2    | ... | ... |

\* Not otherwise placed.

TABLE VII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.              | Jan. |    | Feb. |    | Mar. |    | Apr. |    | May. |    | June. |    | July. |    | Aug. |    | Sept. |    | Oct. |    | Nov. |    | Dec. |     | NATIVITY. |      | PARENT-AGE. |      | SEX. |     |     |
|-------------------------------|------|----|------|----|------|----|------|----|------|----|-------|----|-------|----|------|----|-------|----|------|----|------|----|------|-----|-----------|------|-------------|------|------|-----|-----|
|                               | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.    | F. | M.    | F. | M.   | F. | M.    | F. | M.   | F. | M.   | F. | M.   | F.  | Am.       | For. | Am.         | For. | M.   | F.  |     |
|                               | 1    | 2  | 1    | 2  | 1    | 2  | 1    | 2  | 1    | 2  | 1     | 2  | 1     | 2  | 1    | 2  | 1     | 2  | 1    | 2  | 1    | 2  | 1    | 2   | 3         | 2    | 3           | 2    | 3    | 2   | 3   |
| Stenosis, Mitral.....         | 1    |    |      |    |      |    |      |    |      |    | 1     |    | 1     |    |      |    | 1     |    |      |    |      |    |      |     | 3         | 2    | 2           | 1    | 3    | 2   | 3   |
| Stomach Diseases*.....        |      | 2  |      |    |      | 1  |      | 1  |      |    |       |    |       |    |      | 1  |       | 1  |      | 1  |      | 1  |      | ... | ...       | ...  | 1           | ...  | 1    | ... | 1   |
| Ulceration.....               |      |    |      |    |      |    |      |    | 1    |    |       |    |       |    |      |    |       |    |      |    |      |    |      |     | 10        | 5    | 8           | 7    | 5    | 10  | 1   |
| Stricture of Oesophagus.....  |      |    |      |    |      |    |      |    |      | 1  |       |    |       |    |      |    |       |    |      |    |      |    |      | ... | ...       | 1    | ...         | ...  | ...  | ... | ... |
| Urethra.....                  |      |    |      |    |      |    |      | 1  |      |    |       |    |       |    | 1    |    |       |    | 1    |    |      |    |      | 3   | ...       | 3    | ...         | 3    | ...  | 3   | ... |
| Suicide by Carbolic Acid..... | 1    |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    | 1    |    |      | 2   | 1         | 2    | 1           | 2    | 1    | 2   | 1   |
| by Chloroform.....            |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 1   | ...       | 1    | ...         | 1    | ...  | 1   | ... |
| by Cyanide Potassium.....     |      |    |      |    |      | 1  |      |    |      |    |       |    |       | 1  |      |    |       | 1  |      |    |      |    |      | 2   | 1         | 1    | 2           | 1    | 2    | 1   | 2   |
| by Morphine.....              |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 1   | 2         | 1    | 1           | 2    | 1    | 2   | 1   |
| by Paris Green.....           |      |    |      |    |      |    |      | 1  |      |    |       |    |       |    |      |    |       | 1  |      |    |      |    |      | 1   | 2         | 1    | 1           | 2    | 1    | 2   | 1   |
| by Cutting Throat.....        |      |    |      |    |      | 1  | 1    |    |      | 1  |       |    |       | 1  |      |    |       |    |      | 2  |      |    |      | 1   | 1         | 1    | 7           | 8    | 6    | 2   | 1   |
| by Drowning.....              |      |    |      |    |      |    |      |    | 1    |    |       |    |       | 1  |      |    | 2     | 2  | 1    | 1  |      |    |      | 5   | 4         | 5    | 4           | 5    | 4    | 4   | 3   |
| by Hanging.....               |      |    |      |    |      |    |      | 1  | 2    | 1  | 1     |    |       |    | 1    |    | 1     |    | 2    |    |      |    | 11   | 2   | 9         | 4    | 10          | 3    | 1    | 1   |     |
| by Illuminating Gas.....      |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    | ...  | ... | 1         | ...  | 1           | 1    | ...  | 1   | ... |
| by Jumping from Window.....   |      |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    |      | 1   | ...       | ...  | ...         | ...  | ...  | ... | ... |
| by Shooting.....              | 2    |    |      |    |      | 1  |      | 1  |      | 1  |       |    |       |    |      |    | 2     |    | 1    |    |      |    |      | 6   | 4         | 5    | 5           | 8    | 2    | 2   | 1   |
| Syphilis.....                 |      |    |      |    |      |    |      |    |      |    | 1     |    |       |    |      |    |       |    |      |    |      |    |      | 3   | 2         | 2    | 3           | 4    | 1    | 1   | ... |
| Congenital.....               |      |    |      |    |      |    |      |    |      |    |       | 1  |       |    |      |    |       |    |      |    |      |    | 21   | 1   | 10        | 12   | 13          | 9    | 1    | 1   | ... |
| Synovitis of Knee.....        |      |    |      |    |      | 3  |      |    |      | 3  |       |    |       | 2  | 1    | 3  |       |    |      |    |      |    | ...  | ... | 1         | ...  | ...         | 1    | ...  | 1   | ... |
| Tabs Dorsalis.....            |      |    |      |    |      | 1  |      |    |      |    |       |    |       |    |      | 1  |       |    |      |    |      |    | ...  | ... | ...       | 1    | ...         | 1    | ...  | 1   | ... |
| Mesenterica.....              | 1    |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       | 1  |      |    |      |    | ...  | ... | ...       | ...  | ...         | ...  | ...  | ... | ... |
| Tetanus Neonatorum.....       |      |    |      |    |      |    |      |    |      |    | 1     |    |       |    |      |    |       |    |      |    |      |    | 2    | ... | 2         | ...  | 1           | 1    | 2    | ... | ... |
| Thrombosis, Cerebral.....     | 1    |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    | 5    | 3   | 5         | 3    | 3           | 5    | 3    | 5   | ... |
| Tracheitis.....               | 1    |    |      |    |      |    |      |    |      |    |       |    |       |    |      |    |       |    |      |    |      |    | 1    | ... | ...       | ...  | ...         | ...  | ...  | ... | ... |

\* Not otherwise specified.



TABLE VII.—CAUSES OF DEATH, 1900.—Concluded.

| CAUSES OF DEATH.                | Jan. |    | Feb. |    | Mar. |    | Apr. |    | May. |    | June. |    | July. |    | Aug. |    | Sept. |    | Oct. |    | Nov. |    | Dec. |     | NATIVITY. |     | PARENT-AGE. |     | SEX. |     |
|---------------------------------|------|----|------|----|------|----|------|----|------|----|-------|----|-------|----|------|----|-------|----|------|----|------|----|------|-----|-----------|-----|-------------|-----|------|-----|
|                                 | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.    | F. | M.    | F. | M.   | F. | M.    | F. | M.   | F. | M.   | F. | M.   | F.  | M.        | F.  | M.          | F.  | M.   | F.  |
|                                 | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.   | F. | M.    | F. | M.    | F. | M.   | F. | M.    | F. | M.   | F. | M.   | F. | M.   | F.  | M.        | F.  | M.          | F.  | M.   | F.  |
| Tubercular Abscess of Buttock   | ..   | .. | ..   | .. | 1    | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ..   | 1   | ...       | 1   | ...         | 1   | ...  |     |
| Tubercular Salpingitis          | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ..   | 1   | ...       | 1   | ...         | ..  | 1    | ... |
| Tuberculosis of Brain           | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ..   | 1   | ...       | 1   | ...         | ..  | 1    | ... |
| General                         | 1    | 1  | 1    | 1  | 1    | 1  | 2    | 2  | 2    | 1  | 3     | 2  | 1     | 3  | 3    | 2  | 1     | 2  | 1    | 2  | 1    | 3  | 2    | 21  | 6         | 12  | 15          | 14  | 13   | 13  |
| Glands of Neck                  | 1    | 1  | 1    | 1  | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | 1    | 1   | 1         | ... | 2           | ... | 2    | 2   |
| Hip                             | ..   | .. | ..   | .. | 1    | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | 1    | 1   | ...       | 1   | ...         | 1   | ...  | 1   |
| Kidney                          | ..   | .. | ..   | .. | ..   | .. | ..   | .. | 1    | .. | ..    | .. | ..    | .. | ..   | 1  | ..    | .. | ..   | .. | ..   | .. | 1    | 1   | 1         | 1   | 1           | 1   | 2    | ... |
| Leg                             | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | 1  | ..    | .. | ..   | .. | ..   | .. | 1    | 1   | 1         | 1   | 1           | 1   | 1    | ... |
| Pulmonary                       | 48   | 36 | 35   | 42 | 39   | 26 | 49   | 45 | 35   | 32 | 33    | 27 | 33    | 31 | 34   | 43 | 34    | 27 | 32   | 35 | 30   | 27 | 40   | 37  | 517       | 333 | 262         | 588 | 442  | 408 |
| Tumor of Abdomen                | 1    | .. | ..   | .. | ..   | .. | 2    | .. | 1    | .. | 1     | .. | 1     | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | 3    | 2   | 1         | 4   | 2           | 2   | 2    | 3   |
| Brain                           | ..   | 1  | 1    | .. | ..   | .. | ..   | .. | 1    | .. | ..    | .. | ..    | .. | ..   | .. | ..    | 1  | ..   | .. | ..   | .. | 4    | ... | ...       | 2   | 2           | 2   | 2    | 2   |
| Breast                          | ..   | .. | ..   | 1  | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | ...  | 1   | ...       | 1   | ...         | 1   | ...  | 1   |
| Gall Bladder                    | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | 1    | .. | ...  | 1   | ...       | 1   | ...         | 1   | ...  | 1   |
| Intra-Thoracic                  | ..   | .. | ..   | .. | 1    | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | 1    | ... | 1         | ... | 1           | ... | 1    | ... |
| Intestine                       | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | 1  | ..   | .. | ..    | .. | ..   | .. | ..   | .. | 1    | ... | 1         | ... | 1           | ... | 1    | ... |
| Laryngeal                       | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | 1    | .. | ..    | .. | ..   | .. | ..   | .. | 1    | ... | 1         | ... | 1           | ... | 1    | ... |
| Ovary                           | 1    | 1  | 1    | 1  | 1    | 1  | 1    | 1  | 1    | 1  | 1     | 1  | 1     | 1  | 1    | 1  | 1     | 1  | 1    | 1  | 1    | 1  | 1    | 1   | 4         | 1   | 4           | ... | 5    | 5   |
| Stomach                         | 1    | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | 1    | ... | 1         | ... | 1           | ... | 1    | ... |
| Uterus                          | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..   | .. | ..    | .. | ..    | .. | ..   | 1  | ..    | .. | ..   | .. | ..   | .. | 1    | ... | ...       | 2   | ...         | ... | 2    | 2   |
| Uræmia                          | 1    | 2  | 1    | 3  | 1    | .. | 3    | 1  | 1    | 1  | 1     | 1  | 1     | 1  | 1    | 1  | 1     | 1  | 1    | 1  | 1    | 2  | 11   | 9   | 8         | 12  | 7           | 13  | 13   |     |
| Uterus, Retroversion, Celiotomy | ..   | .. | ..   | .. | ..   | .. | ..   | 1  | ..   | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | 1    | ... | ...       | 1   | ...         | ... | 1    | 1   |
| Variçose Ulcer                  | ..   | .. | ..   | .. | ..   | .. | ..   | .. | 1    | .. | ..    | .. | ..    | .. | ..   | .. | ..    | .. | ..   | .. | ..   | .. | 1    | ... | 1         | ... | 1           | ... | ...  | 1   |
| Cause Unknown                   | 2    | 2  | 1    | .. | 4    | 5  | 4    | 2  | ..   | 1  | 1     | 1  | 1     | 1  | 1    | 1  | 2     | 1  | 2    | 2  | 1    | 1  | 21   | 12  | 12        | 21  | 20          | 13  | 13   |     |









TABLE VIII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.                   |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | Total. |                 |    |      |    |    |
|------------------------------------|----|----------------|----|---------|----|---------|----|---------|----|----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--------------|----|--------|-----------------|----|------|----|----|
| Under 1.                           |    | 1 and under 2. |    | 2 to 3. |    | 3 to 4. |    | 4 to 5. |    | 5 to 10. |    | 10 to 15. |    | 15 to 20. |    | 20 to 30. |    | 30 to 40. |    | 40 to 50. |    | 50 to 60. |    | 60 to 70. |    | 70 to 80. |    | 80 to 90. |    | 90 and over. |    |        | Age not stated. |    | SEX. |    |    |
| M.                                 | F. | M.             | F. | M.      | F. | M.      | F. | M.      | F. | M.       | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.           | F. |        | M.              | F. | M.   | F. | M. |
| Cancer of Uterus.....              |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 43     |                 |    |      |    |    |
| Vagina.....                        |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 1      |                 |    |      |    |    |
| Unspecified.....                   |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 1      |                 |    |      |    |    |
| Carcinoma Oris.....                |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 2      |                 |    |      |    |    |
| Carbuncle.....                     |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 4      |                 |    |      |    |    |
| Cellulitis, Pelvic.....            |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 3      |                 |    |      |    |    |
| Cerebritis.....                    |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 3      |                 |    |      |    |    |
| Childbirth*.....                   |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 2      |                 |    |      |    |    |
| Casarean Section.....              |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 1      |                 |    |      |    |    |
| Miscarriage.....                   |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 2      |                 |    |      |    |    |
| Neoplasm of Cord, Embolism.....    |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 1      |                 |    |      |    |    |
| Phlegmatia Dolens.....             |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 1      |                 |    |      |    |    |
| Placenta Previa Hemorrhage.....    |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 1      |                 |    |      |    |    |
| Post-partum Hemorrhage.....        |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 1      |                 |    |      |    |    |
| Prolonged and Difficult Labor..... |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 8      |                 |    |      |    |    |
| Puerperal Eclampsia.....           |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 8      |                 |    |      |    |    |
| Puerperal Nephritis.....           |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 14     |                 |    |      |    |    |
| Puerperal Peritonitis.....         |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 9      |                 |    |      |    |    |
| Puerperal Septicæmia.....          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 8      |                 |    |      |    |    |
| Thrombus following Childbirth..... |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 41     |                 |    |      |    |    |
| Vomiting of Pregnancy.....         |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 1      |                 |    |      |    |    |
| Chlorosis.....                     |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 2      |                 |    |      |    |    |
| Cholera Infantum.....              |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 1      |                 |    |      |    |    |
| Morbus.....                        |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 557    |                 |    |      |    |    |
|                                    |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    | 18     |                 |    |      |    |    |

\* Not otherwise placed.









TABLE VIII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.            | Under 1. |    | 1 and under 2. |    | 2 to 3. |    | 3 to 4. |    | 4 to 5. |    | 5 to 10. |    | 10 to 15. |    | 15 to 20. |    | 20 to 30. |    | 30 to 40. |    | 40 to 50. |    | 50 to 60. |    | 60 to 70. |    | 70 to 80. |    | 80 to 90. |    | 90 and over. |    | Age not stated. |    | SEX. |     | TOTAL. |     |     |
|-----------------------------|----------|----|----------------|----|---------|----|---------|----|---------|----|----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--------------|----|-----------------|----|------|-----|--------|-----|-----|
|                             |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     |        |     |     |
|                             | M.       | F. | M.             | F. | M.      | F. | M.      | F. | M.      | F. | M.       | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.           | F. | M.              | F. | M.   | F.  |        |     |     |
| Heart Diseases*.....        | 6        | 4  |                |    |         |    |         |    |         |    | 2        | 4  | 3         | 4  | 1         | 5  | 2         | 7  | 5         | 15 | 11        | 22 | 27        | 23 | 44        | 41 | 30        | 8  | 11        |    |              |    |                 |    |      |     | 125    | 164 | 289 |
| Dilatation.....             |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           | 1  | 2         | 1  | 1         | 1  | 1         | 2  | 1         | 3  | 1         | 1  | 2         | 1  | 1         |    |              |    |                 |    |      | 8   | 7      | 15  |     |
| Enlargement.....            |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 2      | 1   | 3   |
| Fatty Degeneration.....     |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 11     | 17  | 28  |
| Hypertrophy.....            |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | ...    | 3   | 3   |
| Valvular Disease.....       | 1        |    |                |    |         |    |         |    |         |    |          | 1  | 3         | 3  | 2         | 3  | 4         | 4  | 3         | 8  | 19        | 14 | 21        | 14 | 17        | 8  | 3         | 1  |           |    |              |    |                 |    | 80   | 74  | 154    |     |     |
| Hemiplegia.....             |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 6      | 6   | 12  |
| Hemorrhage, Multiple.....   |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 1      | ... | 1   |
| Cerebral.....               | 1        | 1  |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           | 2  | 3         | 2  | 5         | 8  | 18        | 16 | 20        | 14 | 20        | 19 | 12        | 16 |              |    |                 |    | 80   | 83  | 163    |     |     |
| Internal.....               |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 1      | ... | 1   |
| Umbilical.....              | 4        | 1  |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 4      | 1   | 5   |
| Hepatitis.....              |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           | 1  | 2         | 1  | 1         | 2  | 3         | 3  | 1         | 1  | 1         | 1  |           |    |              |    |                 |    |      | 9   | 8      | 17  |     |
| Hernia.....                 |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 4      | 10  | 14  |
| Femoral.....                |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | ...    | 3   | 3   |
| Inguinal.....               | 1        |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 2      | ... | 2   |
| Umbilical.....              | 1        |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 1      | 2   | 3   |
| Hip-joint Disease.....      |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 1      | ... | 1   |
| Hodgkins' Disease.....      |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 1      | ... | 1   |
| Homicide.....               | 1        | 1  |                |    |         |    |         |    |         |    |          |    |           |    | 3         | 2  | 1         | 1  | 1         |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    | 9    | 1   | 10     |     |     |
| Hydrocephalus.....          | 7        | 6  | 3              | 2  |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 11     | 8   | 19  |
| Hydronephrosis.....         |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 1      | ... | 1   |
| Icterus Neonatorum.....     | 12       | 8  |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 12     | 8   | 20  |
| Indigestion, Acute.....     |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | ...    | 9   | 9   |
| Infantile.....              | 34       | 28 | 3              | 4  |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 37     | 32  | 69  |
| Influenza.....              | 7        | 2  | 2              | 1  | 1       | 1  | 1       |    |         |    |          |    |           |    |           |    |           | 6  | 8         | 4  | 5         | 9  | 4         | 10 | 15        | 28 | 28        | 21 | 44        | 17 | 32           | 1  | 4               |    |      | 108 | 147    | 255 |     |
| Intestinal Obstruction..... |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 12     | 5   | 17  |
| Ulceration.....             | 1        |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 4      | 1   | 5   |
| Insanity.....               |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |     | 10     | 7   | 17  |

\*Not otherwise placed.

TABLE VIII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.                               | Under 1. |    | 1 and under 2. |    | 2 to 3. |    | 3 to 4. |    | 4 to 5. |    | 5 to 10. |    | 10 to 15. |    | 15 to 20. |    | 20 to 30. |    | 30 to 40. |    | 40 to 50. |    | 50 to 60. |    | 60 to 70. |    | 70 to 80. |    | 80 to 90. |    | 90 and over. |    | Age not stated. |    | SEX. |    | TOTAL. |  |  |    |     |     |
|------------------------------------------------|----------|----|----------------|----|---------|----|---------|----|---------|----|----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--------------|----|-----------------|----|------|----|--------|--|--|----|-----|-----|
|                                                |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    |     |     |
|                                                | M.       | F. | M.             | F. | M.      | F. | M.      | F. | M.      | F. | M.       | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.           | F. | M.              | F. | M.   | F. |        |  |  |    |     |     |
| Insanity, General Paralysis of the Insane..... |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 16  |     |
| Intussusception.....                           | 2        | 1  | 1              |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  | 10 |     |     |
| Kidney Diseases *.....                         |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 5   |     |
| Addison's Disease.....                         |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 5   |     |
| Bright's Disease.....                          |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 2   |     |
| Granular Degeneration.....                     | 1        |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 203 |     |
| Inflammation.....                              |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 1   |     |
| Laryngitis.....                                |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 1   |     |
| Tubercular.....                                | 3        | 2  |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 12  |     |
| Liver Disease *.....                           |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 9   |     |
| Atrophy, Acute, Yellow.....                    |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 7   |     |
| Cirrhosis.....                                 |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 9   |     |
| Congestion.....                                |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 7   |     |
| Enlargement.....                               |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 45  |     |
| Hypertrophy.....                               |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 5   |     |
| Inflammation.....                              |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 5   |     |
| Sclerosis.....                                 |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 5   |     |
| Locomotor Ataxia.....                          |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 5   |     |
| Leukemia.....                                  |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 5   |     |
| Malaria.....                                   | 1        |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 1   |     |
| Malassimilation.....                           | 71       | 86 | 5              | 5  |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    |     | 167 |
| Malformation, Imperforate Anus.....            | 4        | 1  |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 5   |     |
| Arterial Duct.....                             | 1        |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 1   |     |
| Foramen Ovale.....                             | 19       | 9  |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    |     | 28  |
| Heart.....                                     | 1        |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 1   |     |
| Hemicephalus.....                              | 1        |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    | 1   |     |
| Spina Bifida.....                              | 4        | 4  |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |        |  |  |    |     |     |

\*Not otherwise placed.



TABLE VIII.—CAUSES OF DEATH, 1900.—Continued.

| CAUSES OF DEATH.               |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
|--------------------------------|----|----------------|----|---------|----|---------|----|---------|----|----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--------------|----|-----------------|----|------|----|----|----|
| Under 1.                       |    | 1 and under 2. |    | 2 to 3. |    | 3 to 4. |    | 4 to 5. |    | 5 to 10. |    | 10 to 15. |    | 15 to 20. |    | 20 to 30. |    | 30 to 40. |    | 40 to 50. |    | 50 to 60. |    | 60 to 70. |    | 70 to 80. |    | 80 to 90. |    | 90 and over. |    | Age not stated. |    | SEX. |    |    |    |
| M.                             | F. | M.             | F. | M.      | F. | M.      | F. | M.      | F. | M.       | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.           | F. | M.              | F. | M.   | F. | M. | F. |
| Prostate Disease.....          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Purpura Hemorrhagica.....      |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Pyæmia.....                    |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Pyo-salpinx.....               |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Quinsy.....                    |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Rachitis.....                  |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Rheumatism.....                |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Acute.....                     |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Chronic.....                   |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Rodent Ulcer.....              |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Sarcoma of Face.....           |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Jaw.....                       |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Liver.....                     |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Pelvis.....                    |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Rectum.....                    |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Stomach.....                   |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Testicle.....                  |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Uterine Organs.....            |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Osteo, Ileum, and Ischeum..... |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Scarlet Fever.....             |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Sclerosis, Arterial.....       |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Spinal.....                    |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Scorbutus.....                 |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Scrofula.....                  |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Septicæmia.....                |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Small-pox.....                 |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Spinal Diseases*.....          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| Stenosis, Mitral.....          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |
| TOTAL.                         |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |                 |    |      |    |    |    |

\*Not otherwise placed.

TABLE VIII.—CAUSES OF DEATH, 1900.

| CAUSES OF DEATH.                   | Under 1. |    | 1 and under 2. |    | 2 to 3. |    | 3 to 4. |    | 4 to 5. |    | 5 to 10. |    | 10 to 15. |    | 15 to 20. |    | 20 to 30. |    | 30 to 40. |    | 40 to 50. |    | 50 to 60. |    | 60 to 70. |    | 70 to 80. |    | 80 to 90. |    | 90 and over. |    | SEX.  |    | Total. |    |
|------------------------------------|----------|----|----------------|----|---------|----|---------|----|---------|----|----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--------------|----|-------|----|--------|----|
|                                    | M. F.    |    | M. F.          |    | M. F.   |    | M. F.   |    | M. F.   |    | M. F.    |    | M. F.     |    | M. F.     |    | M. F.     |    | M. F.     |    | M. F.     |    | M. F.     |    | M. F.     |    | M. F.     |    | M. F.     |    | M. F.        |    | M. F. |    |        |    |
|                                    | M.       | F. | M.             | F. | M.      | F. | M.      | F. | M.      | F. | M.       | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.        | F. | M.           | F. | M.    | F. |        |    |
| Stomach Diseases*                  |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| Ulceration.....                    |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| Stricture of Esophagus.....        |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 10     | 15 |
| Urethra.....                       |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| Suicide by Poison, Carbolic Acid.  |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 3      | 3  |
| by Chloroform.....                 |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| by Cyanide Potassium.....          |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 3      | 3  |
| by Morphine.....                   |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| by Paris Green.....                |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 3      | 3  |
| by Cutting Throat.....             |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 2      | 1  |
| by Drowning.....                   |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 6      | 2  |
| by Hanging.....                    |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 5      | 4  |
| by Illuminating Gas.....           |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 10     | 3  |
| by Jumping from Window.....        |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| by Shooting.....                   |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 13     | 9  |
| Syphilis.....                      |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| Congenital.....                    | 11       | 8  | 2              | 1  |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| Synovitis of Knee.....             |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 8      | 2  |
| Tabes Dorsalis.....                |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 4      | 1  |
| Mesenterica.....                   | 2        |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 2      | 2  |
| Tetanus Neonatorum.....            | 2        |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 3      | 5  |
| Thrombosis, Cerebral.....          |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| Tracheitis.....                    |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| 1.....                             |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| Tubercular Abscess of Buttock..... |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| 1.....                             |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| Salpingitis.....                   |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| Tuberculosis of Brain.....         |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 14     | 13 |
| General.....                       | 1        | 3  | 1              | 1  |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 2      | 2  |
| 1.....                             |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |
| Glands of Neck.....                |          |    |                |    |         |    |         |    |         |    |          |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |              |    |       |    | 1      | 1  |

\* Not otherwise placed.







TABLE IX.—CLASSIFICATION (*Bertillon*) AND PERCENTAGE.—1900.*Mortality in the State and in each Division ascribed to each Cause and Class of Causes.*

| NUMBER OF DEATHS IN EACH DIVISION OF THE STATE. |                          |                       |                       |                                                                 |                |            |                  |            |                | CAUSES OF DEATH.         | Percentage in Whole State. | PERCENTAGE OF DEATHS IN EACH DIVISION. |              |                          |            |                  |                    |             |                  |
|-------------------------------------------------|--------------------------|-----------------------|-----------------------|-----------------------------------------------------------------|----------------|------------|------------------|------------|----------------|--------------------------|----------------------------|----------------------------------------|--------------|--------------------------|------------|------------------|--------------------|-------------|------------------|
| Bristol County.                                 | Kent County.             | Newport County Towns. | Newport City.         | Providence County Towns.                                        | Central Falls. | Pawtucket. | Providence City. | Pawtucket. | Central Falls. | Providence County Towns. | Newport City.              | Newport County Towns.                  | Kent County. | Providence County Towns. | Pawtucket. | Providence City. | Washington County. | Woonsocket. | Providence City. |
| 297 708 187 423                                 | 1 301 352 792            | 3 678 556 439         | 8 823                 | ALL CAUSES.....                                                 | 100.00         | 100.00     | 100.00           | 100.00     | 100.00         | 100.00                   | 100.00                     | 100.00                                 | 100.00       | 100.00                   | 100.00     | 100.00           | 100.00             | 100.00      | 100.00           |
| 296 706 186 422                                 | 1 384 552 791            | 3 665 553 435         | 8 790                 | CAUSES SPECIFIED.....                                           | 99.63          | 99.09      | 99.46            | 99.65      | 99.87          | 100.00                   | 99.76                      | 99.47                                  | 99.72        | 99.50                    | 99.50      | 99.76            | 99.47              | 99.72       | 99.66            |
| 1 2 1 1                                         | 7 1 1                    | 13 3 4                | 33                    | CAUSES UNSPECIFIED.....                                         | .37            | .91        | .54              | .35        | .13            | .....                    | .24                        | .53                                    | .28          | .50                      | .50        | .24              | .53                | .28         | .34              |
|                                                 |                          |                       |                       |                                                                 |                |            |                  |            |                | CLASSES.                 |                            |                                        |              |                          |            |                  |                    |             |                  |
|                                                 |                          |                       |                       |                                                                 |                |            |                  |            |                | I.                       |                            |                                        |              |                          |            |                  |                    |             |                  |
| 89 180 37 120                                   | 411 85 239 1,143 150 124 | 2,578                 | GENERAL DISEASES..... | 20.22                                                           | 28.25          | 26.98      | 31.08            | 30.18      | 24.15          | 29.55                    | 28.37                      | 19.78                                  | 25.43        | 29.97                    | 29.97      | 29.97            | 29.97              | 29.97       | 29.97            |
|                                                 |                          |                       |                       |                                                                 |                |            |                  |            |                | II.                      |                            |                                        |              |                          |            |                  |                    |             |                  |
| 28 73 33 62                                     | 211 35 78                | 313 50 50             | 925                   | DISEASES OF THE NERVOUS SYSTEM AND THE ORGANS OF SPECIAL SENSE. | 10.52          | 11.39      | 8.99             | 8.51       | 9.85           | 9.95                     | 14.66                      | 17.65                                  | 10.31        | 7.74                     | 7.74       | 7.74             | 7.74               | 7.74        | 7.74             |

|    |     |     |     |     |    |     |     |     |     |       |                                                                 |       |       |       |       |       |       |       |       |       |       |       |
|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-------|-----------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 23 | 51  | 12  | 46  | 115 | 25 | 68  | 290 | 37  | 48  | 715   | III.<br>DISEASES OF THE CIRCULATORY APPARATUS.                  | 8.11  | 10.93 | 6.65  | 7.88  | 8.58  | 7.10  | 8.27  | 10.87 | 6.42  | 7.20  | 7.74  |
| 32 | 126 | 24  | 48  | 192 | 75 | 116 | 618 | 68  | 44  | 1,343 | IV.<br>DISEASES OF THE RESPIRATORY APPARATUS.                   | 15.21 | 10.02 | 12.23 | 16.80 | 14.65 | 21.31 | 13.80 | 11.35 | 12.83 | 17.80 | 10.78 |
| 59 | 140 | 31  | 64  | 172 | 76 | 136 | 511 | 166 | 68  | 1,423 | V.<br>DISEASES OF THE DIGESTIVE APPARATUS.                      | 16.13 | 15.49 | 29.85 | 13.89 | 17.17 | 21.59 | 12.37 | 15.13 | 16.59 | 19.78 | 19.87 |
| 20 | 19  | 11  | 19  | 118 | 20 | 44  | 280 | 21  | 41  | 593   | VI.<br>DISEASES OF THE GENITO-URINARY APPARATUS AND ITS ADNEXA. | 6.72  | 9.34  | 3.78  | 7.61  | 5.55  | 5.68  | 8.48  | 4.49  | 5.88  | 2.68  | 6.73  |
| 2  | 11  | 2   | 2   | 10  | 3  | 10  | 47  | 8   | 4   | 99    | VII.<br>PUERPERAL STATE.....                                    | 1.12  | .91   | 1.44  | 1.28  | 1.26  | .85   | .72   | .47   | 1.07  | 1.55  | .67   |
| 1  | 2   | 2   | ... | 1   | 1  | 1   | 15  | 1   | 1   | 25    | VIII.<br>DISEASES OF THE SKIN AND CELLULAR TISSUE.              | .29   | .23   | .18   | .41   | .13   | .28   | .07   | ..... | 1.07  | .28   | .34   |
| 2  | 2   | ... | ... | 1   | 2  | 1   | 1   | ... | ... | 9     | IX.<br>DISEASES OF THE ORGANS OF LOCOMOTION.                    | .10   | ..... | ..... | .03   | .13   | .57   | .07   | ..... | ..... | .28   | .67   |

TABLE IX.—CLASSIFICATION AND PERCENTAGE, 1900.—Continued.

| NUMBER OF DEATHS IN EACH DIVISION OF THE STATE. |              |                       |               |                          |                |            |                  |            |                | PERCENTAGE OF DEATHS IN EACH DIVISION. |                                         |                       |              |                 |      |       |      |      |       |      |      |
|-------------------------------------------------|--------------|-----------------------|---------------|--------------------------|----------------|------------|------------------|------------|----------------|----------------------------------------|-----------------------------------------|-----------------------|--------------|-----------------|------|-------|------|------|-------|------|------|
| CAUSES OF DEATH.                                |              |                       |               |                          |                |            |                  |            |                | Percentage in Whole State.             |                                         |                       |              |                 |      |       |      |      |       |      |      |
| Whole State.                                    |              |                       |               |                          |                |            |                  |            |                |                                        |                                         |                       |              |                 |      |       |      |      |       |      |      |
| Bristol County.                                 | Kent County. | Newport County Towns. | Newport City. | Providence County Towns. | Central Falls. | Pawtucket. | Providence City. | Pawtucket. | Central Falls. | Providence County Towns.               | Newport City.                           | Newport County Towns. | Kent County. | Bristol County. |      |       |      |      |       |      |      |
| 3                                               | 2            | ...                   | 4             | 9                        | 3              | 4          | 20               | 12         | ...            | 47                                     | MALFORMATIONS.....                      | .53                   | .86          | .55             | .51  | .85   | .65  | .94  | ..... | .28  | 1.01 |
| 8                                               | 30           | 8                     | 17            | 32                       | 11             | 33         | 103              | 21         | 10             | 333                                    | EARLY INFANCY.....                      | 3.77                  | 3.78         | 4.43            | 4.16 | 3.13  | 2.30 | 4.02 | 4.27  | 4.24 | 2.69 |
| 15                                              | 34           | 16                    | 26            | 49                       | 1              | 24         | 71               | 9          | 23             | 268                                    | OLD AGE.....                            | 3.04                  | 1.62         | 1.93            | 3.03 | .28   | 3.52 | 6.15 | 8.56  | 4.80 | 5.05 |
| 19                                              | 36           | 10                    | 14            | 63                       | 15             | 37         | 193              | 20         | 22             | 429                                    | AFFECTIONS PRODUCED BY EXTERNAL CAUSES. | 4.86                  | 3.60         | 5.25            | 4.67 | 4.26  | 4.53 | 3.31 | 5.35  | 5.09 | 6.40 |
| 1                                               | 2            | 1                     | 1             | 7                        | ...            | 1          | 13               | 3          | 4              | 33                                     | ILL-DEFINED DISEASES...                 | .38                   | .54          | .35             | .13  | ..... | .50  | .24  | .53   | .28  | .34  |

| I.<br>GENERAL DISEASES. |      |      |      |      |      |      |      |      |      |                                                       |                                                   |  |  |  |  |  |  |  |  |  |  |  |  |     |      |      |      |       |      |      |       |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|------|------|------|-------------------------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|-----|------|------|------|-------|------|------|-------|------|------|------|------|------|
| 4                       | 6    | 3    | 20   | 21   | 6    | 8    | 39   | 8    | 12   | 127                                                   | Typhoid Fever.....                                |  |  |  |  |  |  |  |  |  |  |  |  |     | 1.44 | 2.73 | 1.44 | 1.05  | 1.01 | 1.70 | 1.51  | 4.72 | 1.60 | .85  | 1.35 |      |
| 4                       | 1    | 1    | 1    | 4    | 1    | 2    | 7    | .... | 21   | { Fever, Intermittent, }<br>{ and Malarial Cachexia } |                                                   |  |  |  |  |  |  |  |  |  |  |  |  | .24 | .... | .... | .19  | .25   | .28  | .28  | .29   | .24  | .53  | .14  | 1.35 |      |
| ....                    | .... | .... | .... | .... | 1    | .... | .... | .... | 1    | Variola.....                                          |                                                   |  |  |  |  |  |  |  |  |  |  |  |  | .01 | .... | .... | .... | ....  | .28  | .28  | ....  | .... | .... | .... | .... | .... |
| 4                       | 25   | .... | .... | 30   | 5    | 12   | 99   | 1    | 9    | 185                                                   | Measles.....                                      |  |  |  |  |  |  |  |  |  |  |  |  |     | 2.10 | 2.05 | .18  | 2.69  | 1.52 | 1.42 | 2.16  | .... | .... | .... | 3.53 | 1.35 |
| ....                    | 1    | 3    | 3    | 7    | 2    | 4    | 11   | 3    | .... | 34                                                    | Scarlatina.....                                   |  |  |  |  |  |  |  |  |  |  |  |  |     | .39  | .... | .54  | .30   | .51  | .57  | .50   | .71  | 1.60 | .14  | .... | .... |
| 4                       | 6    | 3    | .... | 11   | 3    | 5    | 46   | 5    | 2    | 86                                                    | Whooping Cough.....                               |  |  |  |  |  |  |  |  |  |  |  |  |     | .97  | .46  | .90  | 1.25  | .63  | .85  | .86   | .... | 1.60 | .85  | 1.35 |      |
| 4                       | 14   | .... | 8    | 9    | 2    | 9    | 22   | 7    | 3    | 78                                                    | { Diphtheria and Croup... }                       |  |  |  |  |  |  |  |  |  |  |  |  |     | .88  | .68  | 1.26 | .60   | 1.14 | .57  | .65   | 1.89 | .... | 1.98 | 1.35 |      |
| 1                       | 8    | 1    | 6    | 13   | 3    | 13   | 31   | 27   | 9    | 112                                                   | { Diphtheria..... }                               |  |  |  |  |  |  |  |  |  |  |  |  |     | 1.27 | 2.05 | 4.86 | .84   | 1.64 | .85  | .93   | 1.42 | .53  | 1.13 | .34  |      |
| 8                       | 14   | 4    | 12   | 43   | 5    | 59   | 98   | 5    | 7    | 255                                                   | Grippe.....                                       |  |  |  |  |  |  |  |  |  |  |  |  |     | 2.89 | 1.59 | .90  | 2.66  | 7.45 | 1.42 | 3.09  | 2.84 | 2.14 | 1.98 | 2.69 |      |
| ....                    | 4    | 2    | 2    | 3    | 1    | .... | 6    | .... | .... | 18                                                    | Cholera Nostras.....                              |  |  |  |  |  |  |  |  |  |  |  |  |     | .20  | .... | .... | .16   | .... | .28  | .22   | .47  | 1.07 | .57  | .... | .... |
| 5                       | 14   | 2    | 3    | 11   | 4    | 7    | 25   | 8    | 7    | 86                                                    | Dysentery.....                                    |  |  |  |  |  |  |  |  |  |  |  |  |     | .97  | 1.59 | 1.44 | .68   | .88  | 1.14 | .79   | .71  | 1.07 | 1.98 | 1.68 |      |
| ....                    | 3    | .... | 1    | 1    | .... | 2    | 9    | 1    | .... | 17                                                    | Erysipelas.....                                   |  |  |  |  |  |  |  |  |  |  |  |  |     | .19  | .... | .18  | .24   | .25  | .... | .07   | .24  | .... | .42  | .... | .... |
| ....                    | 1    | 1    | .... | .... | .... | .... | 1    | .1   | .... | 4                                                     | { Purulent Infection and }<br>{ Septicæmia..... } |  |  |  |  |  |  |  |  |  |  |  |  |     | .04  | .... | .18  | .63   | .... | .... | ....  | .... | .53  | .14  | .... | .... |
| ....                    | 1    | .... | .... | 1    | 1    | .... | 5    | .... | .... | 8                                                     | Tubercle of the Larynx....                        |  |  |  |  |  |  |  |  |  |  |  |  |     | .09  | .... | .... | .14   | .... | .28  | .07   | .... | .... | .14  | .... | .... |
| 25                      | 10   | 7    | 42   | 143  | 26   | 66   | 414  | 54   | 33   | 850                                                   | Tubercle of the Lungs....                         |  |  |  |  |  |  |  |  |  |  |  |  |     | 9.63 | 7.52 | 9.71 | 11.26 | 8.33 | 7.39 | 10.28 | 9.93 | 3.74 | 5.65 | 8.41 |      |
| 3                       | 4    | .... | 1    | 6    | 3    | 9    | 47   | 11   | 5    | 89                                                    | Tubercle of the Meninges..                        |  |  |  |  |  |  |  |  |  |  |  |  |     | 1.09 | 1.14 | 1.98 | 1.28  | 1.14 | .85  | .43   | .24  | .... | .57  | 1.01 |      |

TABLE IX.—CLASSIFICATION AND PERCENTAGE, 1900.—Continued.

| NUMBER OF DEATHS IN EACH DIVISION OF THE STATE. |              |                       |               |                          |                |            |                  |             |                    | PERCENTAGE OF DEATHS IN EACH DIVISION. |             |                  |            |                |                          |               |                       |              |                 |
|-------------------------------------------------|--------------|-----------------------|---------------|--------------------------|----------------|------------|------------------|-------------|--------------------|----------------------------------------|-------------|------------------|------------|----------------|--------------------------|---------------|-----------------------|--------------|-----------------|
| CAUSES OF DEATH.                                |              |                       |               |                          |                |            |                  |             |                    | Percentage in Whole State.             |             |                  |            |                |                          |               |                       |              |                 |
| Whole State.                                    |              |                       |               |                          |                |            |                  |             |                    |                                        |             |                  |            |                |                          |               |                       |              |                 |
| Bristol County.                                 | Kent County. | Newport County Towns. | Newport City. | Providence County Towns. | Central Falls. | Pawtucket. | Providence City. | Woonsocket. | Washington County. | Washington County.                     | Woonsocket. | Providence City. | Pawtucket. | Central Falls. | Providence County Towns. | Newport City. | Newport County Towns. | Kent County. | Bristol County. |
| .....                                           | 2            | 1                     | 1             | 7                        | ...            | 4          | 4                | 1           | 3                  | 25                                     | .68         | .18              | .19        | .51            | .....                    | .50           | .24                   | .....        | .28             |
| .....                                           | 2            | .....                 | .....         | .....                    | .....          | .....      | .....            | .....       | .....              | .07                                    | .....       | .....            | .11        | .....          | .....                    | .....         | .....                 | .....        | .....           |
| .....                                           | .....        | .....                 | .....         | 1                        | .....          | .....      | .....            | .....       | .....              | .01                                    | .....       | .....            | .....      | .....          | .....                    | .....         | .....                 | .....        | .....           |
| .....                                           | .....        | .....                 | .....         | 1                        | 2              | .....      | 4                | .....       | .....              | .08                                    | .....       | .....            | .11        | .....          | .....                    | .14           | .24                   | .....        | .....           |
| 3                                               | 1            | .....                 | .....         | 6                        | .....          | .....      | 16               | 1           | .....              | .30                                    | .....       | .18              | .44        | .....          | .....                    | .43           | .....                 | .....        | .14             |
| .....                                           | .....        | .....                 | .....         | 2                        | .....          | .....      | .....            | .....       | .....              | .02                                    | .....       | .....            | .....      | .....          | .....                    | .14           | .....                 | .....        | .....           |
| 1                                               | 1            | .....                 | .....         | 4                        | 1              | 7          | 11               | 2           | .....              | .30                                    | .....       | .36              | .30        | .88            | .28                      | .29           | .....                 | .....        | .14             |
| .....                                           | .....        | .....                 | .....         | 1                        | .....          | 1          | 7                | 2           | .....              | .12                                    | .....       | .36              | .19        | .13            | .....                    | .07           | .....                 | .....        | .....           |
| 10                                              | 7            | 1                     | 6             | 15                       | 4              | 11         | 50               | 5           | 12                 | 1.37                                   | 2.73        | .90              | 1.37       | 1.39           | 1.14                     | 1.08          | 1.42                  | .53          | .99             |
| .....                                           | .....        | 1                     | .....         | 5                        | 1              | 1          | 19               | .....       | .....              | .30                                    | .....       | .....            | .51        | .13            | .28                      | .36           | .....                 | .....        | .....           |
| .....                                           | .....        | .....                 | .....         | .....                    | .....          | .....      | .....            | .....       | .....              | .....                                  | .....       | .....            | .....      | .....          | .....                    | .....         | .....                 | .....        | .....           |

|     |     |     |     |     |     |     |     |    |                                                                                   |     |       |       |       |       |       |       |       |       |       |
|-----|-----|-----|-----|-----|-----|-----|-----|----|-----------------------------------------------------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 3   | 4   | 3   | 12  | 2   | 20  | 3   | 5   | 52 | { Cancer, etc., of the }<br>{ Female Genital Organs }                             | .59 | 1.14  | .54   | .54   | .25   | .86   | ..... | 1.60  | .57   | 1.01  |
| 2   | 4   | 1   | 6   | 3   | 2   | 18  | 1   | 41 | { Cancer, etc., of the }<br>{ Breast .....                                        | .46 | .23   | ..... | .49   | .25   | .43   | .94   | .53   | .57   | .67   |
| 1   | 2   | 1   | 5   | 3   | 7   | ... | 2   | 21 | { Cancer, etc., of the }<br>{ Skin .....                                          | .23 | .46   | ..... | .19   | .38   | .36   | .24   | ..... | .28   | .34   |
| 2   | 3   | ... | 6   | 2   | 15  | ... | 2   | 30 | { Cancer, etc., of Other }<br>{ Organs and Organs not }<br>{ specified .....      | .34 | .46   | ..... | .41   | ..... | .43   | ..... | ..... | .42   | .67   |
| ... | ... | 1   | 1   | 1   | 8   | 1   | ... | 13 | { Other Tumors (tumors }<br>{ of the female genital }<br>{ organs excepted) ..... | .15 | ..... | .18   | .22   | ..... | .28   | .24   | .53   | ..... | ..... |
| 1   | 4   | ... | 4   | 2   | 1   | 11  | 1   | 24 | { Rheumatism, Acute }<br>{ Articular .....                                        | .27 | .23   | ..... | .30   | .13   | .29   | ..... | ..... | .57   | .34   |
| 2   | ... | 1   | 3   | 2   | 1   | 3   | 2   | 14 | { Rheumatism, Chronic, }<br>{ and Gout .....                                      | .16 | .46   | ..... | .08   | .13   | .57   | .22   | .24   | ..... | .67   |
| ... | 1   | ... | ... | ... | ... | ... | ... | 1  | Scorbutus .....                                                                   | .01 | ...   | ..... | ..... | ..... | ..... | ..... | ..... | .14   | ..... |
| 1   | 4   | ... | 2   | 11  | 4   | 2   | 1   | 50 | Diabetes .....                                                                    | .57 | .91   | .18   | .57   | .25   | 1.14  | .79   | .47   | .57   | .34   |
| ... | ... | 1   | ... | ... | 1   | ... | ... | 2  | Goitre, Exophthalmic .....                                                        | .02 | ...   | ..... | .03   | ..... | ..... | .24   | ..... | ..... | ..... |
| ... | ... | ... | ... | 1   | 1   | ... | ... | 2  | Addison's Disease .....                                                           | .02 | ...   | ..... | .03   | .13   | ..... | ..... | ..... | ..... | ..... |
| ... | ... | ... | 1   | ... | 1   | ... | ... | 2  | Leukæmia .....                                                                    | .02 | ...   | ..... | .03   | ..... | .07   | ..... | ..... | ..... | ..... |
| ... | 3   | ... | 7   | 1   | 4   | 17  | 2   | 37 | Anæmia .....                                                                      | .42 | .68   | .36   | .46   | .51   | .28   | .50   | ..... | .12   | ...   |
| 1   | 2   | 1   | 2   | 1   | 2   | 42  | 1   | 62 | { Alcoholism, Acute and }<br>{ Chronic .....                                      | .70 | .46   | .18   | 1.14  | .23   | .58   | .47   | .53   | .28   | .34   |
| ... | ... | 1   | ... | 1   | ... | ... | ... | 2  | Saturnism .....                                                                   | .02 | ...   | ..... | ..... | .13   | ..... | .24   | ..... | ..... | ..... |



TABLE IX.—CLASSIFICATION AND PERCENTAGE, 1900.—Continued.

| NUMBER OF DEATHS IN EACH DIVISION OF THE STATE. |              |                       |               |                          |                |            |                  |             |                    | PERCENTAGE OF DEATHS IN EACH DIVISION. |                                                             |      |      |      |      |       |      |      |      |      |      |
|-------------------------------------------------|--------------|-----------------------|---------------|--------------------------|----------------|------------|------------------|-------------|--------------------|----------------------------------------|-------------------------------------------------------------|------|------|------|------|-------|------|------|------|------|------|
| CAUSES OF DEATH.                                |              |                       |               |                          |                |            |                  |             |                    | Percentage in Whole State.             |                                                             |      |      |      |      |       |      |      |      |      |      |
| Bristol County.                                 | Kent County. | Newport County Towns. | Newport City. | Providence County Towns. | Central Falls. | Pawtucket. | Providence City. | Woonsocket. | Washington County. |                                        |                                                             |      |      |      |      |       |      |      |      |      |      |
| 2                                               | 17           | 4                     | 20            | 37                       | 11             | 21         | 54               | 20          | 5                  | 191                                    | II.                                                         |      |      |      |      |       |      |      |      |      |      |
|                                                 |              |                       |               |                          |                |            |                  |             |                    |                                        | DISEASES OF THE NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE. |      |      |      |      |       |      |      |      |      |      |
|                                                 |              |                       |               |                          |                |            |                  |             |                    |                                        | 2.16                                                        | 1.14 | 3.60 | 1.47 | 2.65 | 3.13  | 2.66 | 4.72 | 2.14 | 2.40 | .67  |
| 1                                               | 2            | ...                   | 1             | 9                        | ...            | 5          | 15               | 1           | ...                | 34                                     | .39                                                         | ...  | .18  | .41  | .63  | ...   | .65  | .24  | ...  | .28  | .34  |
| 1                                               | ...          | 1                     | ...           | 1                        | ...            | 1          | 3                | ...         | ...                | 7                                      | .08                                                         | ...  | ...  | .08  | .13  | ...   | .07  | ...  | .53  | ...  | .34  |
| ...                                             | ...          | 1                     | 3             | 5                        | ...            | 2          | 7                | ...         | 2                  | 20                                     | .23                                                         | .46  | ...  | .19  | .25  | ...   | .36  | .71  | .53  | ...  | ...  |
| 17                                              | 37           | 16                    | 30            | 69                       | 18             | 46         | 180              | 23          | 37                 | 473                                    | 5.36                                                        | 8.42 | 4.14 | 4.89 | 5.81 | 5.11  | 4.96 | 7.07 | 8.56 | 5.23 | 5.72 |
| ...                                             | 8            | 2                     | 4             | ...                      | 3              | 1          | 3                | ...         | 1                  | 22                                     | .25                                                         | .23  | ...  | .08  | .13  | .85   | ...  | .94  | 1.07 | 1.13 | ...  |
| 1                                               | 2            | 2                     | ...           | 13                       | ...            | ...        | 12               | ...         | 1                  | 31                                     | .35                                                         | .23  | ...  | .33  | ...  | .4... | .93  | ...  | 1.07 | .28  | .34  |

## II.

## DISEASES OF THE NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.

Meningitis, Simple .....

{ Meningitis, Epidemic, {

{ Cerebro-Spinal..... }

{ Locomotor Ataxia, {

{ Progressive..... }

{ Other Diseases of the {

{ Spinal Cord..... }

{ Cerebral Congestion {

{ and Hemorrhage..... }

{ Cerebral Softening..... }

{ Paralysis without cause {

{ assigned ..... }

|                                        |     |     |     |     |     |     |     |                                                    |                      |      |                             |      |      |      |      |      |      |
|----------------------------------------|-----|-----|-----|-----|-----|-----|-----|----------------------------------------------------|----------------------|------|-----------------------------|------|------|------|------|------|------|
| ...                                    | ... | ... | 15  | ... | 1   | ... | 10  | General Paralysis.                                 | .18                  | ...  | .03                         | ...  | 1.07 | ...  | ...  | ...  | ...  |
| 1                                      | 1   | 1   | 45  | ... | 5   | ... | 54  | { Other Forms of Mental }<br>{ Alienation }        | .61                  | ...  | .14                         | ...  | 3.23 | .24  | .53  | .14  | .34  |
| ...                                    | 3   | 2   | 11  | ... | 5   | 1   | 23  | Epilepsy                                           | .26                  | .23  | .18                         | ...  | .79  | ...  | 1.07 | .42  | ...  |
| ...                                    | 3   | 3   | 5   | 2   | 2   | 18  | 43  | Convulsions of Children...                         | .49                  | .68  | .72                         | .48  | .57  | .71  | 1.60 | .42  | ...  |
| ...                                    | ... | 1   | 1   | ... | ... | ... | 2   | Tetanus.                                           | .02                  | ...  | ...                         | ...  | .07  | ...  | .53  | ...  | ...  |
| ...                                    | ... | ... | ... | ... | 2   | ... | 2   | Chorea.                                            | .02                  | ...  | .05                         | ...  | ...  | ...  | ...  | ...  | ...  |
| ...                                    | ... | ... | 1   | ... | ... | ... | 1   | Neuralgia.                                         | .01                  | ...  | ...                         | ...  | .28  | ...  | ...  | ...  | ...  |
| ...                                    | ... | ... | ... | ... | 1   | ... | 1   | { Other Affections of the }<br>{ Nervous System. } | .01                  | ...  | .03                         | ...  | ...  | ...  | ...  | ...  | ...  |
| ...                                    | ... | ... | ... | ... | 1   | ... | 1   | { Diseases of the Eye }<br>{ and Appendages. }     | .01                  | ...  | ...                         | .03  | ...  | ...  | ...  | ...  | ...  |
| ...                                    | ... | ... | ... | ... | 6   | 1   | 7   | Diseases of the Ear.                               | .08                  | ...  | .18                         | ...  | ...  | ...  | ...  | ...  | ...  |
| III.                                   |     |     |     |     |     |     |     |                                                    |                      |      |                             |      |      |      |      |      |      |
| DISEASES OF THE CIRCULATORY APPARATUS. |     |     |     |     |     |     |     |                                                    |                      |      |                             |      |      |      |      |      |      |
| ...                                    | ... | ... | 1   | 1   | ... | 5   | 1   | 8                                                  | Pericarditis.        | .09  | ...                         | .18  | ...  | .28  | ...  | ...  | ...  |
| 2                                      | 4   | 1   | 14  | 8   | 1   | 63  | 3   | 109                                                | Endocarditis, Acute. | 1.24 | 1.14                        | .54  | 1.71 | 1.01 | .28  | .58  | .57  |
| 16                                     | 40  | 8   | 26  | 93  | 22  | 54  | 187 | 29                                                 | 512                  | 5.80 | 8.42                        | 5.22 | 5.08 | 6.82 | 6.25 | 6.68 | 5.39 |
| 3                                      | 3   | 3   | 2   | 5   | 1   | 3   | 7   | 2                                                  | 4                    | 33   | Angina Pectoris.            | ...  | .37  | .91  | .36  | .47  | 1.01 |
| 1                                      | 1   | ... | 1   | 3   | ... | ... | 7   | ...                                                | ...                  | 13   | Affections of the Arteries. | ...  | .15  | ...  | ...  | .22  | .31  |



|                                            |                                                                            |     |     |     |     |     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |
|--------------------------------------------|----------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21                                         | Pleurisy.....                                                              | 2   | 1   | 2   | 3   | ... | 1   | 11  | 1   | ... | .24  | ..... | .18   | .30   | .13   | ..... | .22   | .47   | .53   | .28   | ..... |
| 20                                         | Asthma.....                                                                | ... | ... | 3   | 1   | 1   | 7   | 5   | 3   | ... | .23  | ..... | .54   | .14   | .88   | .28   | .07   | .71   | ..... | ..... | ..... |
| 7                                          | Pulmonary Emphysema.....                                                   | ... | 1   | ... | ... | ... | 1   | 5   | ... | ... | .08  | ..... | ..... | .14   | .13   | ..... | ..... | ..... | .53   | ..... | ..... |
| 2                                          | { Other Diseases of the<br>Respiratory System<br>(Phthisis excepted).... } | ... | ... | ... | ... | ... | 1   | 1   | ... | ... | .02  | ..... | .18   | .03   | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| V.<br>DISEASES OF THE DIGESTIVE APPARATUS. |                                                                            |     |     |     |     |     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |
| 2                                          | { Affections of the Mouth<br>and its adnexa..... }                         | ... | 1   | ... | ... | ... | ... | ... | ... | ... | .02  | ..... | ..... | ..... | ..... | ..... | .07   | ..... | .53   | ..... | ..... |
| 4                                          | Affections of the Pharynx.                                                 | ... | 1   | ... | ... | ... | ... | 3   | ... | ... | .04  | ..... | ..... | .08   | ..... | ..... | ..... | ..... | .53   | ..... | ..... |
| 1                                          | { Affections of the (Eso-<br>phagus..... }                                 | ... | ... | ... | ... | ... | ... | 1   | ... | ... | .01  | ..... | ..... | .03   | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 15                                         | Ulcer of the Stomach....                                                   | ... | 1   | 2   | 1   | ... | 1   | 9   | ... | ... | .17  | ..... | ..... | .24   | .13   | ..... | .07   | .47   | .53   | .14   | ..... |
| 4                                          | { Other Affections of the<br>Stomach..... }                                | ... | 4   | ... | 2   | 11  | 1   | 7   | 18  | 4   | .67  | 1.82  | .72   | .49   | .88   | .28   | .79   | .47   | ..... | .57   | 1.35  |
| 33                                         | { Diarrhoea and Enteritis<br>(under 2 years)..... }                        | 77  | 19  | 35  | 95  | 50  | 71  | 239 | 123 | 31  | 8.76 | 7.06  | 22.12 | 6.50  | 8.96  | 14.20 | 6.83  | 8.27  | 10.16 | 10.87 | 11.11 |
| 1                                          | { Diarrhoea and Enteritis<br>(Chronic)..... }                              | ... | 1   | ... | 3   | 2   | ... | ... | 4   | 1   | .12  | ..... | .18   | .11   | ..... | ..... | .14   | .71   | ..... | .14   | ..... |
| 7                                          | { Diarrhoea and Enteritis<br>(over 2 years)..... }                         | 12  | 1   | 2   | 12  | 5   | 10  | 38  | 12  | 5   | 1.18 | 1.14  | 2.16  | 1.03  | 1.26  | 1.42  | .86   | .47   | .53   | 1.69  | 2.36  |
| 1                                          | { Hernia and Intestinal<br>Obstruction..... }                              | 7   | 3   | 2   | 4   | 1   | 6   | 20  | 3   | 3   | .57  | .68   | .54   | .54   | .76   | .56   | .29   | .47   | 1.00  | .99   | .66   |

TABLE IX.—CLASSIFICATION AND PERCENTAGE, 1900.—Continued.

| NUMBER OF DEATHS IN EACH DIVISION OF THE STATE. |              |                       |               |                          |                |            |                  |             |                    | CAUSES OF DEATH. | Percentage in Whole State. | PERCENTAGE OF DEATHS IN EACH DIVISION. |                |                        |               |                       |              |                 |  |
|-------------------------------------------------|--------------|-----------------------|---------------|--------------------------|----------------|------------|------------------|-------------|--------------------|------------------|----------------------------|----------------------------------------|----------------|------------------------|---------------|-----------------------|--------------|-----------------|--|
| Bristol County.                                 | Kent County. | Newport County Towns. | Newport City. | Providence County Towns. | Central Falls. | Pawtucket. | Providence City. | Woonsocket. | Washington County. |                  |                            | Providence City.                       | Central Falls. | Providence City Towns. | Newport City. | Newport County Towns. | Kent County. | Bristol County. |  |
| .....                                           | .....        | 1                     | .....         | 1                        | .....          | 3          | .....            | .....       | .....              | .06              | .....                      | .....                                  | .07            | .....                  | .53           | .....                 | .....        |                 |  |
| 1                                               | .....        | .....                 | .....         | .....                    | 1              | .....      | .....            | .....       | .....              | .02              | .....                      | .....                                  | .01            | .....                  | .....         | .....                 | .01          |                 |  |
| .....                                           | .....        | .....                 | .....         | 2                        | .....          | 7          | .....            | .....       | .....              | .10              | .....                      | .....                                  | .14            | .....                  | .....         | .....                 | .....        |                 |  |
| .....                                           | 4            | .....                 | 6             | 3                        | 1              | 4          | 20               | 2           | 5                  | .51              | 1.14                       | .36                                    | .54            | .51                    | .28           | 1.42                  | .57          |                 |  |
| .....                                           | .....        | .....                 | .....         | 1                        | .....          | .....      | 1                | .....       | 1                  | .03              | .23                        | .....                                  | .03            | .....                  | .....         | .....                 | .....        |                 |  |
| .....                                           | 6            | .....                 | 1             | 9                        | 2              | 4          | 21               | 1           | 1                  | .51              | .23                        | .18                                    | .57            | .51                    | .57           | .24                   | .85          |                 |  |
| 1                                               | 4            | .....                 | 3             | 2                        | .....          | 2          | 6                | 5           | .....              | .26              | .....                      | .90                                    | .16            | .25                    | .....         | .71                   | .34          |                 |  |
| 11                                              | 22           | 4                     | 7             | 25                       | 15             | 31         | 97               | 15          | 11                 | 2.70             | 2.51                       | 2.70                                   | 2.64           | 3.91                   | 4.26          | 1.65                  | 3.70         |                 |  |
| 1                                               | 2            | .....                 | 1             | 3                        | .....          | .....      | 24               | .....       | 3                  | .39              | .68                        | .....                                  | .65            | .....                  | .....         | .24                   | .34          |                 |  |

| VI.                                                             |     |     |     |     |     |     |     |     |     |     |                                                               |      |
|-----------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------------------------------------------------|------|
| DISEASES OF THE GENITO-<br>URINARY APPARATUS AND<br>ITS ADNEXA. |     |     |     |     |     |     |     |     |     |     |                                                               |      |
| 1                                                               | 3   | 1   | 6   | 7   | 7   | 13  | 71  | 4   | 4   | 117 | Nephritis, Acute.....                                         | 1.33 |
| 14                                                              | 14  | 8   | 9   | 100 | 11  | 26  | 164 | 16  | 28  | 390 | Bright's Disease .....                                        | 4.42 |
| 1                                                               | 2   | ... | 1   | ... | 1   | 1   | 1   | ... | 2   | 9   | { Other Diseases of the<br>Kidneys and their Ad-<br>nexa..... | .10  |
| 2                                                               | ... | ... | ... | ... | ... | ... | 2   | ... | ... | 4   | { Calculi of the Urinary<br>Tract.....                        | .04  |
| ...                                                             | ... | 1   | ... | 7   | 1   | 2   | 3   | ... | 2   | 16  | Diseases of the Bladder...                                    | .18  |
| ...                                                             | ... | ... | ... | 1   | ... | ... | 2   | ... | ... | 3   | { Diseases of the Ureth-<br>ra, etc.....                      | .03  |
| 2                                                               | ... | ... | 1   | ... | 1   | 1   | 5   | ... | 1   | 10  | Diseases of the Prostate...                                   | .11  |
| ...                                                             | ... | ... | 2   | 1   | ... | 1   | 11  | ... | 3   | 18  | Tumor, Uterine.....                                           | .21  |
| ...                                                             | ... | ... | 1   | 1   | ... | ... | 6   | 1   | 1   | 10  | { Other Diseases of the<br>Uterus.....                        | .11  |
| ...                                                             | ... | 1   | ... | ... | ... | ... | 4   | ... | ... | 5   | { Cysts and Other Tum-<br>ors of the Ovary.....               | .06  |
| ...                                                             | ... | ... | ... | ... | ... | ... | 11  | ... | ... | 11  | { Other Diseases of the<br>Female Genital Organs }            | .12  |
| VII.                                                            |     |     |     |     |     |     |     |     |     |     |                                                               |      |
| THE PUERPERAL STATE.                                            |     |     |     |     |     |     |     |     |     |     |                                                               |      |
| 2                                                               | 3   | ... | ... | 1   | 3   | 3   | 8   | 1   | ... | 21  | Accidents of Pregnancy...                                     | .24  |
| ...                                                             | ... | ... | 1   | ... | ... | ... | 1   | ... | ... | 2   | Other Accidents of Labor.                                     | .02  |

|       |       |       |       |       |       |       |      |       |       |      |  |  |
|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|--|--|
| .34   | ..... | .53   | 1.42  | .50   | 1.99  | 1.64  | 1.93 | .72   | .91   | 1.33 |  |  |
| 4.71  | .42   | 4.27  | 2.13  | 7.19  | 3.13  | 3.28  | 4.46 | 2.88  | 6.38  | 4.42 |  |  |
| .34   | 1.98  | ..... | .24   | ..... | .28   | .13   | .03  | ..... | .46   | .10  |  |  |
| .67   | .28   | ..... | ..... | ..... | ..... | ..... | .05  | ..... | ..... | .04  |  |  |
| ..... | ..... | .53   | ..... | .50   | .28   | .25   | .08  | ..... | .46   | .18  |  |  |
| ..... | ..... | ..... | ..... | .07   | ..... | ..... | .05  | ..... | ..... | .03  |  |  |
| .67   | ..... | ..... | ..... | .07   | .13   | .13   | .14  | ..... | .23   | .11  |  |  |
| ..... | ..... | ..... | .47   | .07   | .13   | .13   | .30  | ..... | .68   | .21  |  |  |
| ..... | ..... | ..... | .24   | .07   | .16   | ..... | .16  | .18   | .23   | .11  |  |  |
| ..... | ..... | .53   | ..... | ..... | ..... | ..... | .11  | ..... | ..... | .06  |  |  |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | .30  | ..... | ..... | .12  |  |  |
| .67   | .42   | ..... | ..... | .07   | .85   | .38   | .22  | .18   | ..... | .24  |  |  |
| ..... | ..... | ..... | .24   | ..... | ..... | ..... | .03  | ..... | ..... | .02  |  |  |



TABLE IX.—CLASSIFICATION AND PERCENTAGE, 1900.—Continued.

| NUMBER OF DEATHS IN EACH DIVISION OF THE STATE. |              |                       |               |                          |                |            |                  |             |                    | PERCENTAGE OF DEATHS IN EACH DIVISION. |                                                   |                       |               |                          |                |            |                  |             |                    |       |       |                 |
|-------------------------------------------------|--------------|-----------------------|---------------|--------------------------|----------------|------------|------------------|-------------|--------------------|----------------------------------------|---------------------------------------------------|-----------------------|---------------|--------------------------|----------------|------------|------------------|-------------|--------------------|-------|-------|-----------------|
| CAUSES OF DEATH.                                |              |                       |               |                          |                |            |                  |             |                    | Percentage in Whole State.             |                                                   |                       |               |                          |                |            |                  |             |                    |       |       |                 |
| Whole State.                                    |              |                       |               |                          |                |            |                  |             |                    |                                        |                                                   |                       |               |                          |                |            |                  |             |                    |       |       |                 |
| Bristol County.                                 | Kent County. | Newport County Towns. | Newport City. | Providence County Towns. | Central Falls. | Pawtucket. | Providence City. | Woonsocket. | Washington County. | Bristol County.                        | Kent County.                                      | Newport County Towns. | Newport City. | Providence County Towns. | Central Falls. | Pawtucket. | Providence City. | Woonsocket. | Washington County. |       |       |                 |
| .....                                           | 3            | 1                     | 1             | 6                        | ...            | 6          | 24               | 5           | 3                  | 49                                     | Septicæmia, Puerperal....                         | .56                   | .68           | .90                      | .76            | .....      | .43              | .24         | .53                | .42   | ..... | Bristol County. |
| .....                                           | 4            | ...                   | ...           | 3                        | ...            | 1          | 12               | 2           | 1                  | 23                                     | { Albuminuria and Puer-<br>peral Eclampsia..... } | .26                   | .23           | .36                      | .13            | .....      | .22              | .....       | .....              | .57   | ..... | Kent County.    |
| .....                                           | .....        | .....                 | .....         | .....                    | .....          | ...        | 1                | ...         | ...                | 1                                      | { Phlegmasia, Alba Do-<br>lens, Puerperal..... }  | .01                   | .....         | .....                    | .....          | .....      | .....            | .....       | .....              | ..... | ..... | .....           |
| .....                                           | 1            | 1                     | ...           | ...                      | ...            | ...        | 1                | ...         | ...                | 3                                      | Other Puerperal Accidents                         | .03                   | .....         | .....                    | .....          | .....      | .....            | .....       | .53                | .14   | ..... | .....           |
| VIII.                                           |              |                       |               |                          |                |            |                  |             |                    |                                        |                                                   |                       |               |                          |                |            |                  |             |                    |       |       |                 |
| DISEASES OF THE SKIN AND CELLULAR TISSUE.       |              |                       |               |                          |                |            |                  |             |                    |                                        |                                                   |                       |               |                          |                |            |                  |             |                    |       |       |                 |
| 1                                               | 1            | 2                     | ...           | 1                        | ...            | ...        | 9                | 1           | 1                  | 16                                     | Gangrene.....                                     | .18                   | .23           | .18                      | .....          | .....      | .07              | .....       | 1.07               | .14   | .34   | .....           |
| .....                                           | .....        | .....                 | .....         | ...                      | 1              | ...        | 3                | ...         | ...                | 4                                      | Furuncle (Carbuncle).....                         | .04                   | .....         | .....                    | .28            | .....      | .....            | .....       | .....              | ..... | ..... | .....           |
| 1                                               | 1            | ...                   | ...           | ...                      | ...            | 1          | 3                | ...         | ...                | 5                                      | Abscess, Warm.....                                | .06                   | .....         | .....                    | .13            | .....      | .....            | .....       | .....              | ..... | .14   | .....           |

| IX.                                      |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
|------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| DISEASES OF THE ORGANS<br>OF LOCOMOTION. |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 2                                        | 1   | ... | ... | 1   | 2   | 1   | ... | ... | .08 | ... | .03  | .13  | .57  | .07  | ...  | .14  | .67  |      |      |      |      |
| ...                                      | 1   | ... | ... | ... | ... | 1   | ... | ... | .02 | ... | ...  | ...  | ...  | ...  | ...  | .14  | ...  |      |      |      |      |
| X.                                       |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| MALFORMATIONS.                           |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 3                                        | 2   | ... | 4   | 9   | 3   | 4   | 20  | 2   | .53 | ... | .36  | .51  | .85  | .65  | ...  | .28  | 1.01 |      |      |      |      |
| XI.                                      |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| EARLY INFANCY.                           |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 8                                        | 29  | 8   | 16  | 28  | 9   | 33  | 154 | 21  | 10  | 316 | 3.58 | 2.28 | 3.78 | 4.11 | 4.16 | 2.56 | 2.01 | 3.78 | 4.27 | 4.10 | ...  |
| ...                                      | 1   | ... | 1   | 4   | 2   | ... | 8   | ... | ... | 16  | .18  | ...  | ...  | .22  | ...  | .57  | .29  | .24  | ...  | .14  | ...  |
| ...                                      | ... | ... | ... | ... | ... | ... | 1   | ... | ... | 1   | .01  | ...  | ...  | .01  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |
| XII.                                     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| OLD AGE.                                 |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 5                                        | 34  | 16  | 26  | 49  | 1   | 24  | 71  | 9   | 23  | 268 | 3.04 | 5.24 | 1.62 | 1.96 | 3.03 | .28  | 3.52 | 6.15 | 8.56 | 4.80 | 5.05 |



|                       |     |     |     |     |     |     |     |     |     |     |                                             |      |       |       |       |       |       |       |       |       |       |       |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 4                     | 16  | 3   | 2   | 23  | 6   | 13  | 99  | 10  | 9   | 185 | { Other Accidental Trau-<br>matism .....    | 2.10 | 2.05  | 1.80  | 2.69  | 1.64  | 1.70  | 1.65  | .47   | 1.60  | 2.26  | 1.35  |
| 2                     | 3   | ... | ... | 5   | ... | 5   | 17  | 1   | ... | 33  | Burns and Scalds .....                      | .37  | ..... | .18   | .46   | .63   | ..... | .36   | ..... | ..... | .42   | .67   |
| 2                     | 1   | ... | ... | 1   | ... | ... | 9   | ... | ... | 13  | Insolation.....                             | .15  | ..... | ..... | .24   | ..... | ..... | .07   | ..... | ..... | .14   | .67   |
| 1                     | ... | ... | ... | ... | ... | ... | ... | ... | 1   | 2   | Electrical Disturbances...                  | .02  | .23   | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .34   |
| 4                     | 7   | 2   | 3   | 14  | 3   | 2   | 15  | 6   | 8   | 64  | Accidental Submersion....                   | .73  | 1.82  | 1.08  | .41   | .25   | .85   | 1.00  | .71   | 1.07  | .99   | 1.35  |
| 4                     | 6   | 2   | 5   | 4   | 1   | 6   | 22  | 1   | 2   | 53  | { Absorption of Deleter-<br>ious Gases..... | .60  | .45   | .18   | .60   | .76   | .28   | .29   | 1.18  | 1.07  | .85   | 1.35  |
| ...                   | ... | ... | ... | 3   | 2   | 1   | 6   | 2   | ... | 14  | Other Acute Poisonings...                   | .16  | ..... | .36   | .16   | .13   | .57   | .22   | ..... | ..... | ..... | ..... |
| 1                     | 1   | ... | ... | 2   | ... | ... | 6   | ... | ... | 10  | Other External Violence..                   | .11  | ..... | ..... | .16   | ..... | ..... | .14   | ..... | ..... | .14   | .34   |
| XIV.                  |     |     |     |     |     |     |     |     |     |     |                                             |      |       |       |       |       |       |       |       |       |       |       |
| ILL-DEFINED DISEASES. |     |     |     |     |     |     |     |     |     |     |                                             |      |       |       |       |       |       |       |       |       |       |       |
| 1                     | 2   | 1   | 1   | 7   | ... | 1   | 13  | 3   | 4   | 33  | { Unspecified Causes of<br>Death.....       | .38  | .91   | .54   | .35   | .13   | ..... | .50   | .24   | .53   | .28   | .34   |

TABLE X.—*Causes of Deaths Registered in Rhode Island,*

| Class. | CAUSES OF DEATH.*                            | 1853  | 1854. | 1855. | 1856. | 1857. | 1858. | 1859. |
|--------|----------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|        | ALL CAUSES.....                              | 1,291 | 1,806 | 1,970 | 2,225 | 2,510 | 2,793 | 2,447 |
|        | SPECIFIED CAUSES.....                        | 1,176 | 1,665 | 1,782 | 1,919 | 2,222 | 2,483 | 2,184 |
|        | [CLASSES.]                                   |       |       |       |       |       |       |       |
| I.     | ZYMOTIC DISEASES.....                        | 504   | 604   | 682   | 820   | 924   | 1,124 | 915   |
| II.    | CONSTITUTIONAL DISEASES.....                 | 67    | 58    | 68    | 88    | 106   | 112   | 96    |
| III.   | LOCAL DISEASES.....                          | 334   | 580   | 476   | 440   | 549   | 564   | 552   |
| IV.    | DEVELOPMENTAL DISEASES.....                  | 208   | 357   | 482   | 510   | 561   | 596   | 532   |
| V.     | VIOLENT DEATHS.....                          | 63    | 56    | 74    | 61    | 82    | 87    | 89    |
|        | [GROUPS.]                                    |       |       |       |       |       |       |       |
| I.     | 1. COMMUNICABLE DISEASES.....                | 489   | 588   | 668   | 804   | 891   | 1,088 | 887   |
|        | 2. DIETIC DISEASES.....                      | 14    | 11    | 8     | 15    | 29    | 26    | 23    |
|        | 3. PARASITIC DISEASES.....                   | 1     | 5     | 6     | 1     | 4     | 10    | 5     |
| II.    | 1. DIATHETIC DISEASES.....                   | 67    | 58    | 68    | 88    | 106   | 112   | 96    |
|        | DISEASES OF—                                 |       |       |       |       |       |       |       |
| III.   | 1. NERVOUS SYSTEM.....                       | 101   | 90    | 126   | 117   | 158   | 165   | 164   |
|        | 2. ORGANS OF CIRCULATION.....                | 29    | 40    | 65    | 43    | 67    | 67    | 64    |
|        | 3. RESPIRATORY ORGANS.....                   | 46    | 62    | 72    | 93    | 93    | 101   | 94    |
|        | 4. DIGESTIVE ORGANS.....                     | 142   | 376   | 186   | 158   | 188   | 198   | 196   |
|        | 5. URINARY ORGANS.....                       | 6     | 4     | 13    | 10    | 26    | 17    | 23    |
|        | 6. ORGANS OF GENERATION.....                 | 5     | 4     | 3     | 5     | 2     | 7     | ....  |
|        | 7. ORGANS OF LOCOMOTION.....                 | 3     | 1     | 2     | 7     | 6     | 6     | 9     |
|        | 8. INTEGUMENTARY SYSTEM.....                 | 2     | 3     | 9     | 7     | 9     | 3     | 2     |
|        | 9. ORGANS OF SPECIAL SENSE—EYE AND EAR... .. | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
|        | DEVELOPMENTAL DISEASES OF—                   |       |       |       |       |       |       |       |
| IV.    | 1. CHILDREN.....                             | 122   | 255   | 342   | 362   | 376   | 403   | 358   |
|        | 2. WOMEN.....                                | 10    | 7     | 9     | 14    | 13    | 24    | 14    |
|        | 3. OLD PEOPLE.....                           | 58    | 67    | 84    | 76    | 119   | 114   | 117   |
|        | 4. DISEASES OF NUTRITION.....                | 18    | 28    | 47    | 58    | 53    | 55    | 43    |
| V.     | 1. ACCIDENT OR NEGLIGENCE.....               | 57    | 53    | 57    | 56    | 73    | 73    | 79    |
|        | 2. BATTLE.....                               | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
|        | 3. HOMICIDE.....                             | 3     | ....  | 9     | 1     | 1     | 1     | 1     |
|        | 4. SUICIDE.....                              | 3     | 3     | 8     | 4     | 8     | 13    | 9     |
|        | CAUSES ILL-DEFINED.....                      | 15    | 20    | 19    | 14    | 30    | 14    | 22    |
|        | CAUSES NOT STATED.....                       | 100   | 131   | 169   | 222   | 258   | 296   | 241   |

\* Still-born included in this table.

*For each of the Forty-eight Years, 1853 to 1900.*

| 1860. | 1861. | 1862. | 1863. | 1864. | 1865. | 1866. | 1867. | 1868. | 1869. | 1870. | 1871. | 1872. | 1873. | 1874. | 1875. | 1876. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2,853 | 3,073 | 2,714 | 3,318 | 3,498 | 3,582 | 3,142 | 3,052 | 3,124 | 3,602 | 3,472 | 3,567 | 4,449 | 4,631 | 4,506 | 4,563 | 4,940 |
| 2,628 | 2,853 | 2,505 | 3,081 | 3,255 | 3,385 | 2,938 | 2,827 | 2,788 | 3,251 | 3,276 | 3,275 | 3,986 | 4,344 | 4,297 | 4,300 | 4,095 |
| 1,073 | 1,198 | 1,032 | 1,278 | 1,377 | 1,543 | 1,172 | 1,063 | 1,093 | 1,413 | 1,268 | 1,265 | 1,377 | 1,689 | 1,690 | 1,657 | 1,613 |
| 131   | 126   | 122   | 141   | 123   | 139   | 132   | 123   | 130   | 144   | 167   | 151   | 187   | 198   | 155   | 193   | 199   |
| 632   | 768   | 660   | 925   | 855   | 835   | 804   | 809   | 666   | 753   | 767   | 844   | 1,081 | 1,090 | 1,103 | 1,104 | 1,110 |
| 657   | 653   | 584   | 612   | 684   | 715   | 698   | 710   | 784   | 819   | 935   | 890   | 1,195 | 2,211 | 1,199 | 1,175 | 1,020 |
| 135   | 108   | 107   | 125   | 116   | 103   | 132   | 122   | 115   | 122   | 139   | 125   | 146   | 156   | 150   | 171   | 153   |
| 1,038 | 1,156 | 1,002 | 1,235 | 1,437 | 1,525 | 1,160 | 1,043 | 1,076 | 1,390 | 1,242 | 1,235 | 1,353 | 1,670 | 1,662 | 1,632 | 1,581 |
| 29    | 34    | 24    | 36    | 31    | 10    | 7     | 11    | 11    | 20    | 20    | 19    | 23    | 14    | 25    | 18    | 27    |
| 5     | 8     | 6     | 7     | 9     | 8     | 5     | 9     | 6     | 3     | 6     | 11    | 1     | 5     | 3     | 7     | 5     |
| 131   | 126   | 122   | 141   | 123   | 139   | 132   | 123   | 130   | 144   | 167   | 151   | 187   | 198   | 155   | 193   | 199   |
| 176   | 212   | 170   | 203   | 217   | 202   | 207   | 245   | 208   | 238   | 249   | 277   | 299   | 351   | 312   | 336   | 346   |
| 73    | 108   | 113   | 99    | 124   | 99    | 117   | 115   | 116   | 128   | 120   | 146   | 190   | 193   | 217   | 191   | 168   |
| 110   | 119   | 104   | 140   | 140   | 127   | 99    | 92    | 74    | 90    | 106   | 123   | 150   | 156   | 164   | 191   | 191   |
| 233   | 261   | 230   | 427   | 326   | 364   | 333   | 285   | 194   | 232   | 217   | 220   | 337   | 267   | 283   | 268   | 284   |
| 29    | 27    | 25    | 35    | 28    | 26    | 29    | 43    | 46    | 46    | 48    | 57    | 77    | 85    | 85    | 85    | 69    |
| 1     | 9     | 1     | 3     | 1     | 4     | 1     | 1     | 2     | ....  | 1     | ....  | 5     | 3     | 3     | 1     | 2     |
| 5     | 15    | 8     | 9     | 7     | 5     | 5     | 6     | 12    | 11    | 15    | 5     | 11    | 18    | 15    | 16    | 27    |
| 11    | 17    | 9     | 9     | 12    | 8     | 13    | 22    | 14    | 8     | 11    | 16    | 12    | 17    | 24    | 16    | 23    |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 476   | 440   | 371   | 390   | 426   | 498   | 454   | 455   | 515   | 523   | 647   | 566   | 857   | 844   | 858   | 834   | 671   |
| 13    | 19    | 23    | 21    | 23    | 18    | 24    | 26    | 22    | 27    | 28    | 34    | 36    | 29    | 44    | 35    | 30    |
| 116   | 122   | 143   | 161   | 193   | 152   | 178   | 188   | 206   | 217   | 204   | 232   | 233   | 254   | 223   | 216   | 241   |
| 52    | 62    | 47    | 40    | 42    | 47    | 42    | 41    | 41    | 52    | 56    | 58    | 69    | 81    | 79    | 90    | 78    |
| 119   | 93    | 91    | 104   | 106   | 90    | 119   | 102   | 97    | 105   | 107   | 106   | 126   | 145   | 128   | 142   | 131   |
| ....  | ....  | 7     | 3     | 2     | 1     | 1     | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 4     | 3     | 1     | 5     | 2     | ....  | 1     | 5     | ....  | 2     | 5     | ....  | 2     | 3     | 4     | 3     | 4     |
| 12    | 12    | 8     | 13    | 6     | 12    | 11    | 15    | 18    | 15    | 27    | 19    | 18    | 8     | 18    | 26    | 18    |
| 37    | 18    | 21    | 20    | 34    | 40    | 33    | 30    | 48    | 51    | 59    | 43    | 87    | 70    | 57    | 56    | 32    |
| 188   | 202   | 188   | 217   | 209   | 207   | 171   | 195   | 288   | 300   | 137   | 249   | 376   | 217   | 152   | 207   | 213   |



TABLE X.—*Causes of Deaths Registered in Rhode Island,*

| Class. | CAUSES OF DEATH.*                          | 1877. | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. |
|--------|--------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|        | ALL CAUSES.....                            | 4,692 | 4,689 | 4,688 | 5,021 | 5,280 | 5,327 | 5,535 | 5,413 |
|        | SPECIFIED CAUSES.....                      | 4,444 | 4,430 | 4,386 | 4,742 | 4,878 | 5,011 | 5,327 | 5,352 |
|        | [CLASSES.]                                 |       |       |       |       |       |       |       |       |
| I.     | ZYMOTIC DISEASES.....                      | 1,819 | 2,000 | 1,867 | 1,970 | 1,877 | 1,776 | 1,839 | 1,803 |
| II.    | CONSTITUTIONAL DISEASES.....               | 231   | 185   | 221   | 205   | 239   | 213   | 260   | 253   |
| III.   | LOCAL DISEASES.....                        | 1,217 | 1,126 | 1,245 | 1,288 | 1,461 | 1,553 | 1,770 | 1,705 |
| IV.    | DEVELOPMENTAL DISEASES.....                | 1,015 | 960   | 926   | 1,122 | 1,119 | 1,254 | 1,273 | 1,370 |
| V.     | VIOLENT DEATHS.....                        | 162   | 159   | 127   | 157   | 182   | 215   | 185   | 221   |
|        | [GROUPS.]                                  |       |       |       |       |       |       |       |       |
| I.     | 1. COMMUNICABLE DISEASES.....              | 1,794 | 1,978 | 1,849 | 1,949 | 1,846 | 1,742 | 1,795 | 1,763 |
|        | 2. DIETIC DISEASES.....                    | 17    | 16    | 16    | 21    | 29    | 32    | 42    | 38    |
|        | 3. PARASITIC DISEASES.....                 | 8     | 6     | 2     | ....  | 2     | 2     | 2     | 2     |
| II.    | 1. DIATHETIC DISEASES.....                 | 231   | 185   | 221   | 205   | 239   | 213   | 260   | 253   |
|        | DISEASES OF—                               |       |       |       |       |       |       |       |       |
| III.   | 1. NERVOUS SYSTEM.....                     | 375   | 361   | 414   | 415   | 481   | 484   | 500   | 506   |
|        | 2. ORGANS OF CIRCULATION.....              | 187   | 172   | 208   | 237   | 271   | 252   | 333   | 293   |
|        | 3. RESPIRATORY ORGANS.....                 | 191   | 206   | 203   | 210   | 238   | 214   | 248   | 234   |
|        | 4. DIGESTIVE ORGANS.....                   | 335   | 264   | 270   | 278   | 324   | 437   | 445   | 421   |
|        | 5. URINARY ORGANS.....                     | 98    | 92    | 113   | 119   | 110   | 118   | 173   | 178   |
|        | 6. ORGANS OF GENERATION.....               | 4     | 1     | ....  | 7     | 3     | 6     | 26    | 14    |
|        | 7. ORGANS OF LOCOMOTION.....               | 15    | 10    | 20    | 15    | 11    | 25    | 26    | 32    |
|        | 8. INTEGUMENTARY SYSTEM.....               | 12    | 20    | 17    | 7     | 23    | 17    | 19    | 27    |
|        | 9. ORGANS OF SPECIAL SENSE—EYE AND EAR.... | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
|        | DEVELOPMENTAL DISEASES OF—                 |       |       |       |       |       |       |       |       |
| IV.    | 1. CHILDREN.....                           | 684   | 648   | 591   | 706   | 752   | 843   | 824   | 912   |
|        | 2. WOMEN.....                              | 29    | 26    | 36    | 36    | 38    | 22    | 44    | 39    |
|        | 3. OLD PEOPLE.....                         | 213   | 222   | 220   | 273   | 247   | 283   | 275   | 293   |
|        | 4. DISEASES OF NUTRITION.....              | 89    | 64    | 79    | 107   | 82    | 106   | 130   | 126   |
| V.     | 1. ACCIDENT OR NEGLIGENCE.....             | 137   | 135   | 113   | 146   | 155   | 178   | 157   | 197   |
|        | 2. BATTLE.....                             | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
|        | 3. HOMICIDE.....                           | 3     | 3     | 1     | 1     | 4     | 6     | 3     | 2     |
|        | 4. SUICIDE.....                            | 22    | 21    | 13    | 10    | 23    | 31    | 25    | 22    |
|        | CAUSES ILL-DEFINED.....                    | 56    | 49    | 48    | 46    | 55    | 45    | 22    | 19    |
|        | CAUSES NOT STATED.....                     | 192   | 210   | 254   | 233   | 347   | 271   | 186   | 42    |

\* Still-born included in this table.

*For each of the Forty-eight Years, 1853 to 1900.—Continued.*

| 1855. | 1856. | 1857. | 1858. | 1859. | 1860. | 1861. | 1862. | 1863. | 1864. | 1865. | 1866. | 1867. | 1868. | 1869. | 1900. | TOTAL AND PER-<br>CENTAGE<br>FOR 45 YEARS,<br>1853-1897. |        |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------------------------------|--------|
| 5,660 | 6,142 | 6,616 | 6,889 | 6,588 | 7,230 | 6,892 | 7,739 | 7,852 | 7,552 | 7,902 | 7,928 | 7,533 | 7,318 | 7,847 | 9,197 | 209,696                                                  | 100.00 |
| 5,514 | 6,052 | 6,562 | 6,815 | 6,500 | 7,112 | 6,823 | 7,677 | 7,753 | 7,495 | 7,819 | 7,853 | 7,188 | 7,274 | 7,802 | 9,141 | 200,518                                                  | 95.64  |
| 1,924 | 2,121 | 2,394 | 2,335 | 2,025 | 2,427 | 2,201 | 2,464 | 2,548 | 2,425 | 2,563 | 2,427 | 2,292 | 2,039 | 2,417 | 3,088 | 73,571                                                   | 35.09  |
| 296   | 292   | 264   | 307   | 312   | 299   | 283   | 305   | 325   | 291   | 300   | 285   | 304   | 315   | 341   | 396   | 8,796                                                    | 4.19   |
| 1,863 | 2,013 | 2,174 | 2,258 | 2,271 | 2,356 | 2,331 | 2,506 | 2,701 | 2,672 | 2,814 | 2,870 | 2,818 | 2,897 | 2,963 | 3,322 | 61,406                                                   | 29.29  |
| 1,260 | 1,443 | 1,506 | 1,699 | 1,646 | 1,789 | 1,734 | 1,980 | 1,891 | 1,819 | 1,812 | 1,935 | 1,758 | 1,668 | 1,749 | 1,934 | 49,098                                                   | 23.41  |
| 201   | 213   | 221   | 216   | 243   | 271   | 274   | 332   | 288   | 288   | 330   | 336   | 316   | 355   | 332   | 401   | 7,677                                                    | 3.66   |
| 1,877 | 2,084 | 2,347 | 2,294 | 1,949 | 2,365 | 2,130 | 2,405 | 2,465 | 2,366 | 2,525 | 2,381 | 2,248 | 1,983 | 2,375 | 3,019 | 72,004                                                   | 34.34  |
| 47    | 35    | 46    | 40    | 74    | 61    | 69    | 59    | 82    | 58    | 38    | 46    | 44    | 56    | 42    | 69    | 1,395                                                    | .67    |
| ....  | 2     | 1     | 1     | 2     | 1     | 2     | ....  | 1     | 1     | ....  | ....  | ....  | ....  | ....  | ....  | 172                                                      | .08    |
| 296   | 262   | 264   | 307   | 312   | 299   | 283   | 305   | 325   | 291   | 300   | 285   | 304   | 315   | 341   | 396   | 8,796                                                    | 4.19   |
| 527   | 598   | 613   | 642   | 551   | 612   | 607   | 660   | 682   | 748   | 790   | 760   | 843   | 784   | 775   | 850   | 17,335                                                   | 8.26   |
| 358   | 393   | 411   | 442   | 467   | 413   | 485   | 509   | 535   | 476   | 535   | 556   | 570   | 551   | 653   | 715   | 10,735                                                   | 5.12   |
| 299   | 305   | 316   | 363   | 402   | 423   | 378   | 465   | 438   | 363   | 383   | 371   | 294   | 283   | 304   | 377   | 9,311                                                    | 4.44   |
| 393   | 495   | 527   | 516   | 541   | 553   | 513   | 595   | 628   | 600   | 581   | 595   | 560   | 647   | 592   | 706   | 16,076                                                   | 7.67   |
| 215   | 222   | 220   | 244   | 272   | 300   | 300   | 325   | 377   | 397   | 431   | 472   | 471   | 547   | 573   | 601   | 6,186                                                    | 2.95   |
| 14    | 12    | 14    | 10    | 10    | 8     | 15    | 15    | 20    | 32    | 43    | 53    | 38    | 36    | 31    | 44    | 409                                                      | .20    |
| 34    | 26    | 23    | 15    | 18    | 25    | 20    | 17    | 14    | 19    | 23    | 22    | 18    | 12    | 18    | 15    | 652                                                      | .31    |
| 23    | 22    | 20    | 26    | 10    | 22    | 13    | 10    | 5     | 27    | 17    | 36    | 16    | 33    | 11    | 6     | 66                                                       | .32    |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | 2     | 10    | 11    | 5     | 8     | 4     | 6     | 8     | 36                                                       | .02    |
| 843   | 1,000 | 1,053 | 1,217 | 1,161 | 1,325 | 1,309 | 1,436 | 1,467 | 1,497 | 1,490 | 1,598 | 1,457 | 1,408 | 1,474 | 1,608 | 34,851                                                   | 16.62  |
| 28    | 31    | 29    | 33    | 27    | 26    | 23    | 47    | 50    | 62    | 40    | 44    | 48    | 49    | 32    | 58    | 1,301                                                    | .62    |
| 267   | 276   | 278   | 290   | 227   | 198   | 185   | 256   | 183   | 187   | 282   | 293   | 253   | 211   | 243   | 268   | 9,125                                                    | 4.35   |
| 122   | 136   | 146   | 159   | 231   | 246   | 217   | 241   | 191   | 73    | ....  | ....  | ....  | ....  | ....  | ....  | 3,821                                                    | 1.82   |
| 178   | 194   | 206   | 190   | 216   | 250   | 233   | 309   | 264   | 234   | 293   | 296   | 263   | 296   | 276   | 336   | 6,703                                                    | 3.20   |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | 14                                                       | .01    |
| 3     | 2     | 2     | 5     | 3     | 2     | 1     | 4     | 3     | 9     | 6     | 2     | 12    | 13    | 15    | 10    | 137                                                      | .06    |
| 20    | 17    | 16    | 21    | 21    | 19    | 40    | 19    | 21    | 45    | 31    | 38    | 41    | 46    | 41    | 55    | 823                                                      | .39    |
| 57    | 39    | 35    | 46    | 49    | 45    | 35    | 34    | 31    | 2     | 31    | 46    | 20    | 20    | 23    | 23    | 1,680                                                    | .80    |
| 59    | 51    | 19    | 28    | 39    | 43    | 34    | 28    | 68    | 55    | 52    | 29    | 25    | 24    | 22    | 33    | 7,468                                                    | 3.56   |

TABLE X.—Continued.

| Class | CAUSES OF DEATH.                                    | 1853. | 1854. | 1855. | 1856. | 1857. | 1858. | 1859. |
|-------|-----------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| I.    | GROUP 1.                                            |       |       |       |       |       |       |       |
|       | 1. Varicella.....                                   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|       | 2. Fever, Typhus.....                               | ...   | 15    | 3     | 2     | 6     | 75    | 3     |
|       | 3. Measles.....                                     | ...   | 46    | 71    | 208   | 147   | 234   | 71    |
|       | 4. Scarlet Fever.....                               | 108   | 11    | 5     | 9     | ...   | 1     | 5     |
|       | 5. Small Pox *.....                                 | 14    | ...   | ...   | ...   | ...   | 6     | 20    |
|       | 6. Diphtheria.....                                  | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|       | 7. Quinsy †.....                                    | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|       | 8. Tonsillitis.....                                 | ...   | ...   | ...   | ...   | ...   | ...   | 1     |
|       | 9. Carbuncle.....                                   | ...   | ...   | ...   | 1     | ...   | 1     | 1     |
|       | 10. Erysipelas.....                                 | 3     | 8     | 15    | 12    | 14    | 20    | 15    |
|       | 11. Fever, Puerperal.....                           | 2     | 2     | 6     | 10    | 8     | 7     | 11    |
|       | 12. Septicæmia.....                                 | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|       | 13. Glanders.....                                   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|       | 14. Hydrophobia.....                                | 1     | ...   | ...   | 1     | ...   | ...   | 1     |
|       | 15. Malignant Postule.....                          | ...   | ...   | 1     | ...   | ...   | 1     | 6     |
|       | 16. Meningitis, Cerebro-Spinal.....                 | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|       | 17. Tetanus.....                                    | ...   | 3     | 3     | 4     | 6     | 1     | 3     |
|       | 18. Cholera.....                                    | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|       | 19. Fever, Malarial.....                            | ...   | ...   | ...   | 1     | ...   | ...   | ...   |
|       | 20. Fever, Remittent ‡.....                         | 1     | ...   | 2     | 3     | 2     | 4     | 1     |
|       | 21. Fever, Typhoid §.....                           | 25    | 39    | 63    | 53    | 76    | 42    | 70    |
|       | 22. Influenza.....                                  | 2     | 1     | 4     | ...   | 15    | 6     | 2     |
|       | 23. Parotitis.....                                  | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|       | 24. Pertussis.....                                  | 2     | 14    | 4     | 19    | 9     | 13    | 46    |
|       | 25. Pneumonia.....                                  | 48    | 54    | 79    | 120   | 141   | 166   | 125   |
|       | 26. Gonorrhœa.....                                  | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|       | 27. Syphilis.....                                   | 1     | ...   | 1     | 2     | ...   | 3     | 5     |
|       | 28. Hydrocephalus (Tubercular Meningitis).....      | 33    | 40    | 58    | 47    | 52    | 65    | 56    |
|       | 29. Scrofula.....                                   | 6     | 5     | 8     | 7     | 11    | 11    | 8     |
|       | 30. Tabes Mesenterica.....                          | ...   | ...   | ...   | ...   | 4     | 6     | 2     |
|       | 31. Tubercular Enteritis.....                       | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|       | 32. Tubercular Laryngitis.....                      | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|       | 33. Tubercular Peritonitis.....                     | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|       | 34. Tuberculosis, General.....                      | ...   | 1     | ...   | ...   | ...   | ...   | ...   |
|       | 35. Tuberculosis, Pulmonary.....                    | 243   | 349   | 345   | 305   | 400   | 426   | 436   |
|       | GROUP 2.                                            |       |       |       |       |       |       |       |
|       | 1. Alcoholism (Delirium Tremens, Intemperance)..... | 14    | 10    | 7     | 13    | 25    | 21    | 22    |
|       | 2. Inanition.....                                   | ...   | 1     | ...   | 1     | ...   | ...   | ...   |
|       | 3. Purpura and Scurvy.....                          | ...   | ...   | 1     | 1     | 4     | 5     | 1     |
|       | GROUP 3.                                            |       |       |       |       |       |       |       |
|       | 1. Thrush.....                                      | 1     | 4     | 5     | 1     | 3     | 9     | 3     |
|       | 2. Worms.....                                       | ...   | 1     | 1     | ...   | 1     | 1     | 2     |
| II.   | GROUP 1.                                            |       |       |       |       |       |       |       |
|       | 1. Gout.....                                        | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|       | 2. Dropsy.....                                      | 45    | 31    | 32    | 50    | 48    | 44    | 41    |
|       | 3. Anæmia.....                                      | 2     | 6     | 4     | 4     | 6     | 12    | 2     |
|       | 4. Cancer.....                                      | 13    | 18    | 27    | 26    | 37    | 44    | 43    |
|       | 5. Noma (Canker).....                               | 1     | ...   | ...   | ...   | ...   | 1     | ...   |
|       | 6. Mortification (Gangrene).....                    | 4     | 2     | 3     | 4     | 8     | 7     | 3     |
|       | 7. Rheumatism.....                                  | 2     | 1     | 2     | 4     | 7     | 4     | 7     |
| III.  | GROUP 1.                                            |       |       |       |       |       |       |       |
|       | 1. Cephalitis.....                                  | 28    | 19    | 26    | 19    | 25    | 42    | 20    |
|       | 2. Apoplexy and Paralysis.....                      | 22    | 25    | 33    | 39    | 42    | 43    | 51    |
|       | 3. Insanity.....                                    | 12    | 6     | 20    | 9     | 21    | 21    | 28    |
|       | 4. Chorea.....                                      | 4     | 6     | 8     | 14    | 16    | 14    | 16    |
|       | 5. Epilepsy.....                                    | ...   | ...   | ...   | ...   | ...   | ...   | 2     |
|       | 6. Brain Diseases, etc.....                         | 4     | ...   | 8     | 6     | 8     | 9     | 6     |
|       | 7. Nerve Diseases.....                              | 31    | 31    | 31    | 39    | 45    | 36    | 41    |
|       | GROUP 2.                                            |       |       |       |       |       |       |       |
|       | 1. Pericarditis.....                                | ...   | 2     | 1     | 1     | 2     | ...   | 1     |
|       | 2. Aneurism.....                                    | 1     | ...   | 1     | 1     | ...   | 1     | 1     |
|       | 3. Heart Diseases, etc.....                         | 28    | 38    | 63    | 41    | 65    | 66    | 62    |

\* Includes eight cases of Chicken Pox.

† Includes Mumps.

‡ Includes Yellow Fever.

§ Includes Billous, Typhus, and Continued Fevers.

*Causes of Deaths Registered in Rhode Island.*

| 1860. | 1861. | 1862. | 1863. | 1864. | 1865. | 1866. | 1867. | 1868. | 1869. | 1870. | 1871. | 1872. | 1873. | 1874. | 1875. | 1876. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| 8     | 11    | 12    | 36    | 26    | 16    | 15    | 12    | 20    | 19    | 26    | 6     | 24    | 63    | 7     | 2     | 4     |
| 64    | 57    | 47    | 91    | 266   | 255   | 28    | 14    | 93    | 286   | 75    | 66    | 54    | 287   | 462   | 185   | 80    |
| 9     | 5     | 7     | 7     | 12    | 22    | 2     | 1     | 2     | 3     | 6     | 12    | 25    | 28    | 8     | 4     | 1     |
| 67    | 140   | 81    | 155   | 160   | 82    | 64    | 31    | 20    | 33    | 33    | 57    | 48    | 45    | 52    | 38    | 159   |
| 3     | ...   | 1     | ...   | 2     | 1     | ...   | ...   | ...   | 1     | 3     | ...   | 1     | ...   | ...   | ...   | ...   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| ...   | 1     | ...   | ...   | ...   | 1     | 2     | ...   | ...   | 2     | 1     | 2     | ...   | 1     | ...   | 1     | 1     |
| 26    | 14    | 11    | 14    | 28    | 21    | 16    | 25    | 25    | 14    | 21    | 18    | 23    | 39    | 26    | 21    | 18    |
| 9     | 7     | 4     | 14    | 14    | 13    | 7     | 8     | 12    | 10    | 16    | 18    | 9     | 17    | 16    | 18    | 18    |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 3     | 1     | ...   |
| ...   | ...   | ...   | 1     | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 1     | 2     |
| ...   | ...   | ...   | 3     | ...   | ...   | 1     | ...   | ...   | 2     | 1     | ...   | 1     | 1     | ...   | ...   | ...   |
| ...   | ...   | ...   | ...   | 2     | 5     | 1     | 4     | 3     | 1     | 3     | 14    | 23    | 62    | 16    | 13    | 7     |
| 5     | 5     | 6     | 8     | 4     | 6     | 3     | 3     | 3     | 2     | 5     | 5     | 8     | 2     | 8     | 5     | 2     |
| ...   | ...   | ...   | ...   | ...   | ...   | 47    | 3     | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| ...   | ...   | ...   | ...   | 1     | ...   | 2     | ...   | ...   | 2     | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| 1     | 3     | ...   | ...   | ...   | 1     | ...   | ...   | 1     | 1     | 2     | 1     | 1     | 1     | ...   | ...   | ...   |
| 68    | 94    | 81    | 128   | 116   | 233   | 152   | 126   | 86    | 106   | 157   | 130   | 190   | 172   | 121   | 150   | 122   |
| 2     | 3     | 3     | 6     | 5     | 1     | 1     | 1     | 2     | ...   | ...   | ...   | 1     | 1     | 2     | 6     | ...   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| 46    | 45    | 15    | 24    | 31    | 56    | 28    | 12    | 26    | 48    | 39    | 25    | 27    | 32    | 45    | 31    | 48    |
| 162   | 163   | 147   | 171   | 201   | 175   | 193   | 172   | 191   | 190   | 182   | 218   | 229   | 234   | 250   | 400   | 339   |
| ...   | ...   | 1     | ...   | ...   | ...   | ...   | 1     | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 1     | 2     |
| 2     | 5     | 3     | 2     | 5     | 2     | 5     | 5     | 3     | ...   | 5     | 6     | 9     | 3     | 7     | 8     | 8     |
| 52    | 63    | 50    | 47    | 49    | 63    | 56    | 41    | 57    | 76    | 51    | 71    | 44    | 52    | 51    | 57    | 68    |
| 9     | 14    | 14    | 13    | 14    | 12    | 5     | 9     | 3     | 11    | 19    | 22    | 9     | 20    | 20    | 21    | 18    |
| 1     | 3     | 3     | ...   | 3     | 7     | 2     | 2     | 2     | 10    | 4     | 5     | 5     | 7     | 3     | 4     | 5     |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| ...   | ...   | ...   | ...   | ...   | 6     | 4     | 10    | 9     | 18    | 16    | 24    | 23    | 18    | 21    | 8     | 18    |
| 505   | 523   | 513   | 512   | 498   | 547   | 526   | 563   | 517   | 555   | 577   | 535   | 600   | 584   | 536   | 657   | 660   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| 26    | 39    | 22    | 32    | 27    | 10    | 7     | 10    | 10    | 18    | 17    | 17    | 23    | 14    | 23    | 17    | 21    |
| 3     | 4     | 2     | 4     | 4     | ...   | ...   | 1     | 1     | 2     | 3     | 2     | ...   | ...   | 3     | 1     | 5     |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| 3     | 4     | 4     | 3     | 8     | 5     | 2     | 8     | 4     | 3     | 4     | 11    | ...   | 5     | 2     | 5     | 4     |
| 3     | 4     | 2     | 4     | 1     | 3     | 3     | 1     | 2     | ...   | 2     | ...   | 1     | ...   | 1     | 2     | 1     |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| 56    | 48    | 46    | 52    | 45    | 61    | 49    | 49    | 49    | 53    | 61    | 56    | 55    | 60    | 29    | 56    | 66    |
| 5     | 3     | 4     | 12    | 1     | 3     | 3     | 2     | 4     | 4     | 2     | 6     | 4     | 3     | 2     | 4     | 2     |
| 41    | 58    | 61    | 62    | 61    | 55    | 64    | 58    | 60    | 66    | 80    | 66    | 95    | 106   | 87    | 95    | 106   |
| ...   | 1     | ...   | ...   | 1     | ...   | 2     | ...   | ...   | ...   | ...   | 1     | 5     | 1     | ...   | 2     | ...   |
| 10    | 10    | 7     | 8     | 5     | 12    | 4     | 7     | 6     | 4     | 7     | 9     | 7     | 11    | 5     | 10    | 11    |
| 16    | 6     | 4     | 7     | 7     | 8     | 10    | 7     | 11    | 17    | 17    | 13    | 21    | 17    | 22    | 26    | 11    |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| 41    | 43    | 36    | 54    | 49    | 39    | 46    | 52    | 40    | 51    | 42    | 44    | 57    | 109   | 60    | 66    | 80    |
| 51    | 57    | 43    | 62    | 51    | 55    | 56    | 72    | 57    | 69    | 64    | 77    | 58    | 67    | 70    | 67    | 95    |
| 32    | 40    | 38    | 31    | 42    | 45    | 36    | 52    | 54    | 48    | 66    | 79    | 67    | 67    | 86    | 99    | 70    |
| 11    | 13    | 7     | 10    | 15    | 20    | 13    | 14    | 13    | 14    | 18    | 16    | 26    | 19    | 13    | 32    | 19    |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 1     | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| 4     | 11    | 6     | 6     | 3     | 7     | 4     | 12    | 5     | 5     | 4     | 10    | 13    | 15    | 16    | 20    | 12    |
| 31    | 48    | 42    | 40    | 51    | 36    | 52    | 43    | 38    | 48    | 55    | 51    | 7     | 74    | 67    | 52    | 70    |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| 3     | 2     | ...   | ...   | ...   | 1     | ...   | ...   | ...   | ...   | 3     | 2     | ...   | 2     | 1     | 4     | 2     |
| 1     | 1     | 2     | ...   | 1     | ...   | 1     | 1     | ...   | ...   | ...   | ...   | ...   | ...   | 1     | ...   | ...   |
| 69    | 105   | 111   | 99    | 123   | 98    | 116   | 114   | 116   | 128   | 117   | 144   | 189   | 191   | 216   | 187   | 166   |

TABLE X.—Continued.

| Class. | CAUSES OF DEATH.                                     | 1877. | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. |
|--------|------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| I.     | GROUP 1.                                             |       |       |       |       |       |       |       |       |
|        | 1. Varicella .....                                   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 2. Fever, Typhus .....                               | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 3. Measles .....                                     | 11    | 81    | ...   | 9     | 37    | 6     | 14    | 18    |
|        | 4. Scarlet Fever .....                               | 62    | 86    | 311   | 468   | 138   | 45    | 34    | 97    |
|        | 5. Small Pox * .....                                 | 5     | 1     | 1     | ...   | 3     | 2     | 2     | ...   |
|        | 6. Diphtheria .....                                  | 492   | 435   | 259   | 152   | 216   | 101   | 95    | 119   |
|        | 7. Quinsy † .....                                    | 4     | 3     | ...   | 1     | 2     | ...   | 3     | 1     |
|        | 8. Tonsilitis .....                                  | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 9. Carbuncle .....                                   | 3     | ...   | 1     | ...   | 2     | 1     | 3     | 4     |
|        | 10. Erysipelas .....                                 | 21    | 17    | 25    | 17    | 37    | 30    | 28    | 25    |
|        | 11. Fever, Puerperal .....                           | 17    | 17    | 9     | 15    | 22    | 28    | 16    | 12    |
|        | 12. Septicæmia .....                                 | ...   | 3     | 2     | ...   | 1     | ...   | 3     | 12    |
|        | 13. Glanders .....                                   | 1     | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 14. Hydrophobia .....                                | 2     | 3     | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 15. Malignant Pustule .....                          | 2     | ...   | ...   | ...   | 1     | 1     | ...   | 3     |
|        | 16. Meningitis, Cerebro-Spinal .....                 | 8     | 11    | 10    | 20    | 18    | 28    | 26    | 21    |
|        | 17. Tetanus .....                                    | 5     | 8     | 6     | 3     | 8     | 8     | 8     | 5     |
|        | 18. Cholera .....                                    | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 19. Fever, Malarial .....                            | 1     | ...   | ...   | ...   | 1     | 8     | 21    | 29    |
|        | 20. Fever, Remittent ‡ .....                         | ...   | 1     | 2     | 4     | 9     | ...   | ...   | ...   |
|        | 21. Fever, Typhoid § .....                           | 123   | 136   | 101   | 141   | 117   | 214   | 239   | 128   |
|        | 22. Influenza .....                                  | 1     | ...   | 4     | ...   | 3     | 1     | ...   | 2     |
|        | 23. Parotitis .....                                  | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 24. Pertussis .....                                  | 32    | 54    | 43    | 20    | 68    | 71    | 9     | 43    |
|        | 25. Pneumonia .....                                  | 226   | 317   | 311   | 364   | 327   | 344   | 400   | 363   |
|        | 26. Gonorrhœa .....                                  | 2     | ...   | ...   | ...   | 2     | ...   | ...   | ...   |
|        | 27. Syphilis .....                                   | 10    | 4     | 10    | 10    | 4     | 16    | 18    | 14    |
|        | 28. Hydrocephalus (Tubercular Meningitis) .....      | 55    | 70    | 57    | 46    | 56    | 49    | 54    | 56    |
|        | 29. Scrofula .....                                   | 11    | 13    | 13    | 12    | 15    | 14    | 22    | 20    |
|        | 30. Tabes Mesenterica .....                          | 10    | 6     | 3     | 3     | 8     | 4     | 5     | 15    |
|        | 31. Tubercular Enteritis .....                       | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 32. Tubercular Laryngitis .....                      | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 33. Tubercular Peritonitis .....                     | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 34. Tuberculosis, General .....                      | 25    | 27    | 36    | 12    | 39    | 27    | 29    | 36    |
|        | 35. Tuberculosis, Pulmonary .....                    | 665   | 635   | 645   | 652   | 712   | 744   | 766   | 739   |
|        | GROUP 2.                                             |       |       |       |       |       |       |       |       |
|        | 1. Alcoholism (Delirium Tremens, Intemperance) ..... | 12    | 15    | 15    | 15    | 24    | 27    | 29    | 30    |
|        | 2. Inanition .....                                   | ...   | ...   | ...   | ...   | 2     | 1     | 10    | 7     |
|        | 3. Purpura and Scurvy .....                          | 5     | 1     | 1     | 6     | 3     | 4     | 3     | 1     |
|        | GROUP 3.                                             |       |       |       |       |       |       |       |       |
|        | 1. Thrush .....                                      | 8     | 4     | 1     | ...   | 1     | 2     | 2     | 2     |
|        | 2. Worms .....                                       | ...   | 2     | 1     | ...   | 1     | ...   | ...   | ...   |
| II.    | GROUP 1.                                             |       |       |       |       |       |       |       |       |
|        | 1. Gout .....                                        | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 1     |
|        | 2. Dropsy .....                                      | 63    | 38    | 50    | 37    | 47    | 50    | 47    | 40    |
|        | 3. Anæmia .....                                      | 1     | 2     | 8     | 8     | 4     | 4     | 7     | 7     |
|        | 4. Cancer .....                                      | 135   | 119   | 125   | 125   | 145   | 132   | 169   | 156   |
|        | 5. Noma (Canker) .....                               | ...   | 1     | 1     | 2     | ...   | ...   | 1     | 5     |
|        | 6. Mortification (Gangrene) .....                    | 8     | 9     | 13    | 9     | 14    | 6     | 9     | 10    |
|        | 7. Rheumatism .....                                  | 24    | 16    | 24    | 24    | 29    | 21    | 27    | 31    |
| III.   | GROUP 1.                                             |       |       |       |       |       |       |       |       |
|        | 1. Cephalitis .....                                  | 81    | 81    | 79    | 88    | 107   | 95    | 91    | 78    |
|        | 2. Apoplexy and Paralysis .....                      | 109   | 102   | 137   | 119   | 146   | 154   | 157   | 182   |
|        | 3. Insanity .....                                    | 72    | 86    | 83    | 96    | 101   | 111   | 118   | 116   |
|        | 4. Chorea .....                                      | 12    | 22    | 17    | 19    | 32    | 23    | 29    | 36    |
|        | 5. Epilepsy .....                                    | 1     | ...   | ...   | 3     | ...   | ...   | 1     | ...   |
|        | 6. Brain Diseases, etc. ....                         | 19    | 8     | 13    | 14    | 13    | 14    | 18    | 11    |
|        | 7. Nerve Diseases .....                              | 81    | 62    | 85    | 76    | 82    | 87    | 86    | 83    |
|        | GROUP 2.                                             |       |       |       |       |       |       |       |       |
|        | 1. Pericarditis .....                                | ...   | ...   | ...   | ...   | ...   | ...   | 17    | ...   |
|        | 2. Aneurism .....                                    | 4     | 6     | 1     | 2     | 2     | 2     | 8     | 3     |
|        | 3. Heart Diseases, etc. ....                         | 183   | 166   | 207   | 235   | 269   | 250   | 308   | 290   |

\* Includes eight cases of Chicken Pox.

† Includes Mumps.

‡ Includes Yellow Fever

§ Includes Billous, Typhus, and Continued Fevers.



*Causes of Deaths Registered in Rhode Island.*

| 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | 1898. | 1899. | 1900. | TOTAL AND PER-<br>CENTAGE<br>FOR 45 YEARS,<br>1853-1907. |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------------------------------|-------|
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 1     | 2     | ...   | ...   | 2     | ...   | 3                                                        | ...   |
| 45    | 18    | 132   | 11    | 29    | 92    | 12    | 28    | 100   | 9     | 54    | 58    | 33    | 18    | 47    | 185   | 1,208                                                    | .58   |
| 91    | 88    | 266   | 207   | 51    | 16    | 33    | 67    | 193   | 123   | 107   | 53    | 29    | 21    | 29    | 62    | 5,860                                                    | 2.79  |
| ...   | ...   | ...   | ...   | ...   | 1     | 1     | 4     | ...   | 2     | ...   | ...   | ...   | ...   | ...   | 1     | 221                                                      | .11   |
| 99    | 228   | 287   | 191   | 181   | 211   | 102   | 89    | 157   | 133   | 310   | 283   | 231   | 93    | 86    | 190   | 5,702                                                    | 2.72  |
| 1     | 1     | 8     | 4     | 7     | 10    | 6     | 6     | 6     | 5     | ...   | ...   | ...   | ...   | 4     | ...   | 80                                                       | .04   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 7     | 3     | 2     | 2     | 4     | ...   | 12                                                       | ...   |
| 1     | 2     | 3     | ...   | 2     | 2     | 2     | 4     | 3     | 3     | 3     | 2     | 1     | 2     | 1     | 4     | 56                                                       | .03   |
| 36    | 31    | 32    | 31    | 28    | 22    | 26    | 25    | 31    | 27    | 20    | 17    | 14    | 9     | 21    | 17    | 987                                                      | .47   |
| 19    | 10    | 25    | 18    | 17    | 19    | 12    | 30    | 7     | 10    | 15    | 10    | 12    | 22    | 23    | 41    | 596                                                      | .28   |
| 10    | 10    | 18    | 24    | 8     | 14    | 12    | 13    | 11    | 7     | ...   | ...   | ...   | ...   | ...   | ...   | 153                                                      | .07   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 1     | ...   | ...   | ...   | ...   | ...   | ...   | 2                                                        | ...   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 2     | ...   | ...   | ...   | ...   | ...   | ...   | 22                                                       | .01   |
| 1     | ...   | 1     | 2     | 1     | ...   | ...   | 1     | 1     | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 33                                                       | .02   |
| 16    | 10    | 24    | 22    | 9     | 17    | 16    | 18    | 40    | 13    | 11    | 22    | 19    | 67    | 42    | 34    | 533                                                      | .25   |
| 4     | 8     | 7     | 9     | 7     | 4     | 3     | 6     | 8     | 6     | 12    | 4     | 2     | ...   | ...   | 2     | 231                                                      | .11   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 50                                                       | .02   |
| 34    | 43    | 83    | 69    | 38    | 41    | 29    | 34    | 6     | 30    | 29    | 42    | 44    | 31    | 30    | 21    | 588                                                      | .28   |
| ...   | ...   | ...   | 2     | 2     | 1     | 2     | 2     | 4     | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 56                                                       | .03   |
| 105   | 121   | 116   | 224   | 135   | 107   | 149   | 133   | 129   | 160   | 125   | 113   | 66    | 76    | 90    | 127   | 5,485                                                    | 2.62  |
| 2     | 7     | ...   | 7     | 4     | 168   | 177   | 336   | 85    | 166   | 115   | 42    | 153   | 75    | 219   | 255   | 1,337                                                    | .64   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 3     | 1     | 1     | 1     | 1     | ...   | 5                                                        | ...   |
| 42    | 49    | 21    | 44    | 77    | 70    | 77    | 25    | 23    | 129   | 45    | 59    | 56    | 96    | 86    | 86    | 1,742                                                    | .83   |
| 465   | 481   | 488   | 508   | 483   | 569   | 568   | 655   | 776   | 665   | 685   | 669   | 635   | 542   | 686   | 966   | 14,652                                                   | 6.99  |
| 1     | 1     | 1     | 2     | 1     | ...   | 3     | ...   | 1     | ...   | 1     | ...   | ...   | ...   | ...   | ...   | 20                                                       | .01   |
| 7     | 12    | 13    | 11    | 13    | 15    | 8     | 14    | 16    | 16    | 15    | 12    | 21    | 23    | 17    | 27    | 349                                                      | .17   |
| 47    | 54    | 54    | 50    | 58    | 72    | 66    | 62    | 53    | 51    | 58    | 73    | 71    | 71    | 84    | 78    | 2,511                                                    | 1.20  |
| 18    | 23    | 21    | 12    | 17    | 11    | 21    | 18    | 13    | 12    | 13    | 12    | 23    | 5     | 6     | 2     | 623                                                      | .30   |
| 7     | 19    | 6     | 13    | 11    | 11    | 12    | 26    | 8     | 11    | 5     | 7     | 12    | 7     | 8     | 2     | 280                                                      | .13   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 14    | 12    | 12    | ...                                                      | ...   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 4     | 2     | 5     | 5     | 8     | 13                                                       | .01   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 8     | 10    | 8     | 9     | 11    | 11    | 26                                                       | .01   |
| 43    | 41    | 29    | 32    | 40    | 36    | 52    | 50    | 72    | 80    | 46    | 37    | 36    | 29    | 42    | 34    | 1,001                                                    | .48   |
| 783   | 827   | 710   | 800   | 727   | 852   | 740   | 759   | 722   | 705   | 799   | 816   | 777   | 765   | 823   | 850   | 27,567                                                   | 13.15 |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...                                                      | ...   |
| 22    | 12    | 16    | 16    | 37    | 25    | 29    | 36    | 47    | 39    | 24    | 34    | 39    | 51    | 34    | 62    | 978                                                      | .47   |
| 22    | 30    | 28    | 19    | 30    | 31    | 37    | 22    | 30    | 14    | 11    | 8     | 4     | 2     | 5     | 1     | 299                                                      | .14   |
| 3     | 3     | 2     | 5     | 7     | 5     | 3     | 1     | 5     | 5     | 3     | 4     | 1     | 3     | 3     | 6     | 118                                                      | .06   |
| ...   | 2     | 1     | ...   | 2     | ...   | 2     | ...   | ...   | 1     | ...   | ...   | ...   | ...   | ...   | ...   | 129                                                      | .06   |
| ...   | ...   | ...   | 1     | ...   | 1     | ...   | ...   | 1     | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 43                                                       | .02   |
| ...   | 1     | 1     | ...   | 2     | ...   | ...   | ...   | 1     | 2     | ...   | ...   | ...   | ...   | ...   | ...   | 8                                                        | ...   |
| 44    | 47    | 39    | 47    | 41    | 46    | 35    | 39    | 39    | 7     | ...   | ...   | ...   | ...   | ...   | ...   | 1,951                                                    | .93   |
| 6     | 15    | 16    | 13    | 21    | 19    | 20    | 16    | 23    | 20    | 29    | 31    | 24    | 18    | 25    | 39    | 397                                                      | .19   |
| 193   | 159   | 159   | 193   | 189   | 165   | 177   | 181   | 205   | 214   | 234   | 226   | 254   | 279   | 292   | 303   | 5,087                                                    | 2.42  |
| ...   | ...   | ...   | ...   | 3     | 4     | 1     | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 33                                                       | .02   |
| ...   | 6     | 15    | 19    | 23    | 20    | 15    | 21    | 17    | 13    | ...   | ...   | 3     | ...   | ...   | 16    | 413                                                      | .20   |
| 34    | 34    | 34    | 35    | 30    | 45    | 35    | 48    | 40    | 35    | 37    | 28    | 23    | 18    | 21    | 38    | 907                                                      | .43   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...                                                      | ...   |
| 91    | 101   | 112   | 133   | 103   | 172   | 178   | 167   | 137   | 115   | 2     | ...   | ...   | ...   | ...   | ...   | 3,144                                                    | 1.49  |
| 185   | 230   | 206   | 211   | 210   | 242   | 219   | 238   | 276   | 280   | 430   | 419   | 469   | 416   | 457   | 506   | 9,137                                                    | 4.36  |
| 101   | 107   | 122   | 156   | 113   | 99    | 116   | 124   | 131   | 156   | ...   | ...   | ...   | ...   | ...   | ...   | 1,148                                                    | .55   |
| 35    | 49    | 61    | 43    | 22    | 30    | 21    | 27    | 39    | 49    | 72    | 43    | 103   | 82    | 66    | 54    | 23                                                       | .01   |
| ...   | 2     | 1     | 2     | 1     | ...   | ...   | 4     | 1     | 1     | 1     | ...   | 1     | 1     | 1     | 2     | 557                                                      | .26   |
| 23    | 14    | 17    | 16    | 19    | 23    | 27    | 25    | 12    | 19    | 20    | 21    | 17    | 11    | 25    | 23    | 3,267                                                    | 1.56  |
| 86    | 92    | 91    | 81    | 80    | 46    | 45    | 79    | 75    | 76    | 252   | 259   | 236   | 262   | 215   | 243   | 59                                                       | .03   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 8     | 13    | 13    | 8     | 17    | 9     | 11    | 22    | ...                                                      | ...   |
| 10    | 21    | 29    | 23    | 29    | 27    | 33    | 19    | 17    | 4     | 8     | 12    | 13    | 8     | 14    | 8     | 275                                                      | .13   |
| 4     | 2     | 5     | 6     | 7     | 8     | 5     | 3     | 4     | 37    | 7     | 6     | 4     | 2     | 5     | 8     | 153                                                      | .07   |
| 341   | 310   | 377   | 413   | 431   | 378   | 417   | 487   | 514   | 485   | 520   | 538   | 553   | 541   | 634   | 699   | 10,307                                                   | 4.92  |



TABLE X.—Continued.

| Class. | CAUSES OF DEATH.                                    | 1853. | 1854. | 1855. | 1856. | 1857. | 1858. | 1859. |
|--------|-----------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| III.   | GROUP 3.                                            |       |       |       |       |       |       |       |
|        | 1. Epistaxis .....                                  | 2     | 1     | 1     | 5     | 2     | 5     | 4     |
|        | 2. Laryngitis .....                                 | 2     | 3     | 4     | 5     | 7     | 13    | 9     |
|        | 3. Bronchitis .....                                 | 7     | 10    | 12    | 13    | 10    | 12    | 18    |
|        | 4. Pleurisy .....                                   | 27    | 43    | 48    | 62    | 70    | 69    | 58    |
|        | 5. Croup .....                                      | 1     | 2     | 3     | 3     | 2     | 2     | 2     |
|        | 6. Asthma .....                                     | 1     | 3     | 5     | 5     | 2     | ...   | 3     |
|        | 7. <i>Lung Diseases, etc.</i> .....                 | 7     | 3     | ...   | ...   | ...   | ...   | ...   |
|        | GROUP 4.                                            |       |       |       |       |       |       |       |
|        | 1. Gastritis .....                                  | ...   | 3     | 3     | 8     | 9     | 1     | 4     |
|        | 2. Enteritis .....                                  | 11    | 11    | 13    | 14    | 13    | 23    | 21    |
|        | 3. Peritonitis .....                                | 4     | 2     | 13    | 17    | 5     | 10    | 13    |
|        | 4. Ascites .....                                    | ...   | 3     | ...   | ...   | ...   | ...   | ...   |
|        | 5. Ulceration of Intestines .....                   | ...   | ...   | ...   | ...   | ...   | ...   | 1     |
|        | 6. Hernia .....                                     | 1     | 2     | 2     | ...   | ...   | 5     | 1     |
|        | 7. Ileus (Appendicitis) .....                       | 2     | 3     | 10    | 10    | 9     | 6     | 6     |
|        | 8. Intussusception .....                            | ...   | ...   | ...   | ...   | ...   | ...   | 1     |
|        | 9. Stricture of Intestines .....                    | ...   | ...   | 1     | ...   | 2     | ...   | ...   |
|        | 10. Fistula .....                                   | ...   | ...   | ...   | ...   | ...   | 1     | ...   |
|        | 11. <i>Stomach Diseases</i> .....                   | 5     | 5     | 4     | 11    | 7     | 8     | 8     |
|        | 12. <i>Pancreas Diseases</i> .....                  | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 13. Hepatitis .....                                 | ...   | ...   | ...   | ...   | ...   | ...   | 6     |
|        | 14. Jaundice .....                                  | 3     | 2     | 2     | ...   | ...   | 4     | 3     |
|        | 15. <i>Liver Diseases, etc.</i> .....               | 4     | 6     | 6     | 7     | 18    | 31    | 20    |
|        | 16. <i>Spleen Diseases, etc.</i> .....              | ...   | 2     | ...   | ...   | ...   | ...   | ...   |
|        | 17. <i>Bowel Diseases, etc.</i> .....               | 4     | 4     | 3     | ...   | 2     | 4     | 5     |
|        | 18. Diarrhœa (Cholera Morbus) .....                 | 20    | 215   | 58    | 40    | 55    | 44    | 55    |
|        | 19. Dysentery .....                                 | 88    | 118   | 71    | 51    | 65    | 61    | 53    |
|        | GROUP 5.                                            |       |       |       |       |       |       |       |
|        | 1. Nephritis (Bright's Disease, etc.) .....         | 1     | ...   | ...   | ...   | ...   | ...   | 3     |
|        | 2. Ischuria .....                                   | ...   | ...   | 2     | ...   | 2     | ...   | ...   |
|        | 3. Diabetes .....                                   | 1     | ...   | 3     | 3     | 3     | 3     | 3     |
|        | 4. Calculus (Gravel, etc.) .....                    | ...   | 1     | ...   | ...   | ...   | 2     | 1     |
|        | 5. Cystitis .....                                   | 1     | 1     | 1     | 2     | ...   | ...   | 4     |
|        | 6. Prostate Disease .....                           | ...   | 1     | ...   | ...   | 5     | 2     | ...   |
|        | 7. <i>Kidney Diseases, etc.</i> .....               | 1     | 1     | 5     | 5     | 13    | 8     | 12    |
|        | 8. <i>Bladder Diseases, etc.</i> .....              | 2     | ...   | 2     | ...   | 3     | 2     | ...   |
|        | GROUP 6.                                            |       |       |       |       |       |       |       |
|        | 1. Diseases of Male Organs of Generation .....      | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 2. Ovarian Diseases .....                           | ...   | ...   | 2     | 3     | ...   | 4     | ...   |
|        | 3. <i>Uterine Diseases, etc.</i> .....              | 5     | 4     | 1     | 2     | 2     | 3     | ...   |
|        | GROUP 7.                                            |       |       |       |       |       |       |       |
|        | 1. Arthritis .....                                  | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 2. <i>Joint Diseases, etc.</i> .....                | 3     | 1     | 2     | 7     | 6     | 6     | 9     |
|        | GROUP 8.                                            |       |       |       |       |       |       |       |
|        | 1. Phlegmon .....                                   | 2     | ...   | 7     | 4     | 3     | 2     | 1     |
|        | 2. Ulcer .....                                      | ...   | 2     | ...   | 1     | 2     | ...   | ...   |
|        | 3. <i>Skin Diseases, etc.</i> .....                 | ...   | 1     | 2     | 2     | 4     | 1     | 1     |
|        | GROUP 9.                                            |       |       |       |       |       |       |       |
|        | 1. Eye and Ear .....                                | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| IV.    | GROUP 1.                                            |       |       |       |       |       |       |       |
|        | 1. Stillborn .....                                  | 41    | 78    | 124   | 183   | 185   | 177   | 177   |
|        | 2. Cholera Infantum .....                           | 39    | 68    | 91    | 77    | 70    | 93    | 61    |
|        | 3. Convulsions .....                                | 20    | 68    | 53    | 64    | 57    | 57    | 50    |
|        | 4. Cyanosis .....                                   | ...   | 1     | 1     | 1     | ...   | ...   | ...   |
|        | 5. Debility (Infantile), Premature Birth, etc. .... | 2     | 13    | 24    | 17    | 17    | 33    | 25    |
|        | 6. Teething .....                                   | 8     | 20    | 28    | 15    | 35    | 29    | 31    |
|        | 7. Hemorrhage, Umbilical .....                      | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 8. Icterus Neonatorum .....                         | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 9. Indigestion .....                                | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 10. Inanition .....                                 | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
|        | 11. Spina Bifida .....                              | 2     | ...   | ...   | ...   | ...   | 2     | ...   |
|        | 12. Other Malformations .....                       | 1     | 7     | 11    | 5     | 12    | 12    | 14    |

*Causes of Deaths Registered in Rhode Island.*

| 1860. | 1861. | 1862. | 1863. | 1864. | 1865. | 1866. | 1867. | 1868. | 1869. | 1870. | 1871. | 1872. | 1873. | 1874. | 1875. | 1876. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8     | 2     | 1     | 1     | 1     | 1     | 1     | 1     | 2     | 4     | 2     | 2     | 2     | 4     | 3     | 4     | 2     |
| 18    | 18    | 7     | 17    | 7     | 10    | 17    | 19    | 22    | 20    | 28    | 24    | 26    | 29    | 40    | 58    | 57    |
| 20    | 21    | 17    | 14    | 16    | 16    | 20    | 16    | 13    | 19    | 12    | 18    | 12    | 14    | 10    | 10    | 9     |
| 57    | 58    | 76    | 97    | 105   | 94    | 53    | 50    | 30    | 41    | 53    | 72    | 66    | 68    | 65    | 96    | 102   |
| 3     | 8     | 3     | 8     | 7     | 3     | 4     | 4     | 5     | 3     | 8     | 1     | 4     | 7     | 10    | 10    | 7     |
| 4     | 12    | ....  | 3     | 4     | 3     | 4     | 2     | 2     | 3     | 3     | 3     | 40    | 34    | 36    | 13    | 14    |
| 11    | ....  | 4     | 8     | 11    | 6     | 2     | 9     | 7     | 9     | 10    | ....  | 16    | 10    | 8     | 28    | 13    |
| 23    | 24    | 30    | 27    | 27    | 20    | 30    | 34    | 19    | 25    | 29    | 26    | 15    | 24    | 37    | 29    | 36    |
| 14    | 7     | 14    | 5     | 19    | 13    | 13    | 11    | 9     | 6     | 8     | 11    | 24    | 17    | 20    | 28    | 21    |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 2     | 5     | 4     | 7     | 2     | 5     | 1     | 6     | 5     | 4     | 6     | 7     | 2     | 4     | 6     | 1     | 7     |
| 16    | 9     | 7     | 5     | 5     | 7     | 9     | 11    | 6     | 8     | 5     | 13    | 3     | 5     | 1     | ....  | 8     |
| 1     | ....  | ....  | ....  | 1     | 1     | 1     | 2     | 1     | 1     | 1     | ....  | 1     | 2     | ....  | ....  | ....  |
| 1     | ....  | ....  | ....  | 1     | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | 1     | ....  | 1     | ....  |
| 9     | 17    | 8     | 12    | 4     | 2     | 4     | 8     | 7     | 2     | 8     | 14    | 13    | 15    | 33    | 13    | 10    |
| 9     | ....  | 6     | ....  | 4     | 4     | 7     | 5     | 4     | 6     | 6     | ....  | 2     | ....  | ....  | ....  | 5     |
| 7     | 4     | 5     | 2     | 3     | 3     | 6     | 3     | 4     | 3     | 2     | ....  | 2     | ....  | ....  | 4     | 1     |
| 31    | 31    | 32    | 34    | 37    | 20    | 37    | 30    | 23    | 28    | 37    | 35    | 31    | 43    | 36    | 43    | 39    |
| ....  | ....  | ....  | 1     | ....  | 1     | ....  | 1     | ....  | 2     | ....  | ....  | ....  | 2     | 1     | 1     | ....  |
| 12    | 4     | 2     | 2     | 1     | 4     | 1     | ....  | 2     | 3     | 4     | 1     | 27    | 29    | 26    | 11    | 5     |
| 48    | 64    | 66    | 61    | 102   | 90    | 74    | 47    | 55    | 61    | 46    | 60    | 118   | 77    | 73    | 73    | 86    |
| 49    | 96    | 52    | 262   | 110   | 188   | 148   | 118   | 52    | 74    | 55    | 43    | 83    | 36    | 38    | 36    | 50    |
| 1     | ....  | ....  | ....  | ....  | ....  | 8     | 17    | 16    | 18    | 15    | 24    | 37    | 39    | 42    | 40    | 38    |
| 1     | ....  | ....  | ....  | ....  | ....  | 1     | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 8     | 8     | 2     | 4     | 6     | 6     | 6     | 1     | 11    | 6     | 8     | 5     | 7     | 8     | 5     | 11    | 5     |
| 1     | ....  | 1     | 4     | 2     | 2     | 2     | 3     | 3     | 3     | 1     | 4     | 5     | 2     | 4     | 2     | 1     |
| 2     | ....  | 4     | 4     | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 1     | 1     | ....  | ....  | ....  | ....  | ....  | ....  | 3     | 1     | 2     | 2     | 2     | 4     | ....  | ....  | 4     |
| 15    | 15    | 17    | 22    | 16    | 13    | 8     | 15    | 8     | 14    | 16    | 19    | 18    | 27    | 24    | 25    | 12    |
| ....  | 3     | 1     | 1     | 4     | 2     | 5     | 7     | 5     | 4     | 6     | 3     | 8     | 5     | 10    | 4     | 9     |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 1     | 2     | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 1     | 7     | 1     | 3     | 1     | 4     | 1     | 1     | 2     | ....  | 1     | ....  | 5     | 3     | 3     | 1     | 2     |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 5     | 15    | 8     | 9     | 7     | 5     | 5     | 6     | 12    | 11    | 15    | 5     | 11    | 18    | 15    | 16    | 27    |
| 7     | 11    | 4     | 7     | 9     | 7     | 8     | 15    | 10    | 4     | 9     | 11    | 10    | 10    | 18    | 9     | 18    |
| 3     | ....  | 3     | ....  | 1     | ....  | 2     | 3     | 2     | 4     | 2     | 2     | 1     | 5     | 3     | 3     | 3     |
| 1     | 6     | 2     | 2     | 2     | 1     | 3     | 4     | 2     | ....  | ....  | 3     | 1     | 2     | 3     | 4     | 2     |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 167   | 146   | 123   | 111   | 138   | 177   | 172   | 163   | 212   | 220   | 234   | 223   | 202   | 228   | 277   | 246   | 224   |
| 151   | 126   | 106   | 114   | 133   | 145   | 110   | 117   | 154   | 151   | 233   | 172   | 391   | 285   | 265   | 318   | 250   |
| 70    | 70    | 55    | 71    | 73    | 73    | 83    | 68    | 63    | 79    | 85    | 83    | 116   | 97    | 98    | 100   | 89    |
| ....  | ....  | 2     | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 42    | 45    | 35    | 47    | 46    | 62    | 54    | 60    | 47    | 34    | 57    | 53    | 100   | 169   | 154   | 135   | 75    |
| 31    | 40    | 39    | 34    | 28    | 31    | 23    | 30    | 23    | 24    | 34    | 20    | 31    | 50    | 42    | 20    | 22    |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 15    | 3     | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 15    | 10    | 11    | 13    | 8     | 10    | 12    | 17    | 16    | 15    | 14    | 15    | 17    | 15    | 17    | 15    | 11    |

TABLE X.—Continued.

| Class. | CAUSES OF DEATH.                                    | 1877 | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. |
|--------|-----------------------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|
| III.   | GROUP 3.                                            |      |       |       |       |       |       |       |       |
|        | 1. Epistaxis .....                                  | 2    | 2     | 2     | 8     | 6     | 7     | 5     | 11    |
|        | 2. Laryngitis .....                                 | 73   | 80    | 67    | 94    | 86    | 101   | 111   | 118   |
|        | 3. Bronchitis .....                                 | 5    | 8     | 13    | 17    | 9     | 8     | 13    | 5     |
|        | 4. Pleurisy .....                                   | 95   | 93    | 96    | 66    | 101   | 77    | 71    | 80    |
|        | 5. Croup .....                                      | 8    | 8     | 13    | 11    | 16    | 9     | 14    | 10    |
|        | 6. Asthma .....                                     | 8    | 15    | 12    | 14    | 20    | 12    | 34    | 10    |
|        | 7. Lung Diseases, etc. ....                         |      |       |       |       |       |       |       |       |
|        | GROUP 4.                                            |      |       |       |       |       |       |       |       |
|        | 1. Gastritis .....                                  | 22   | 14    | 17    | 18    | 27    | 30    | 35    | 27    |
|        | 2. Enteritis .....                                  | 39   | 40    | 34    | 33    | 44    | 75    | 47    | 76    |
|        | 3. Peritonitis .....                                | 17   | 22    | 24    | 24    | 27    | 30    | 40    | 40    |
|        | 4. Ascites .....                                    |      |       |       |       |       |       | 1     | 2     |
|        | 5. Ulceration of Intestines .....                   |      |       |       |       |       |       | 4     | 1     |
|        | 6. Hernia .....                                     | 5    | 7     | 12    | 8     | 10    | 11    | 7     | 11    |
|        | 7. Ileus (Appendicitis) .....                       | 8    | 12    | 9     | 9     | 10    | 8     | 11    | 8     |
|        | 8. Intussusception .....                            |      | 3     | 2     |       | 5     | 5     | 3     | 5     |
|        | 9. Stricture of Intestines .....                    |      |       |       |       |       |       | 1     |       |
|        | 10. Fistula .....                                   |      |       |       |       |       |       |       |       |
|        | 11. Stomach Diseases .....                          | 7    | 13    | 13    | 10    | 12    | 14    | 16    | 16    |
|        | 12. Pancreas Diseases .....                         |      |       |       |       |       |       |       |       |
|        | 13. Hepatitis .....                                 | 6    | 5     | 5     | 6     | 8     | 8     | 7     | 10    |
|        | 14. Jaundice .....                                  | 7    | 4     | 3     | 3     | 8     | 8     | 6     | 5     |
|        | 15. Liver Diseases, etc. ....                       | 39   | 40    | 44    | 49    | 35    | 50    | 38    | 40    |
|        | 16. Spleen Diseases, etc. ....                      | 2    | 1     |       |       |       |       |       | 2     |
|        | 17. Bowel Diseases, etc. ....                       | 1    | 4     | 2     | 9     | 6     | 6     | 20    | 7     |
|        | 18. Diarrhœa (Cholera Morbus) .....                 | 130  | 59    | 61    | 81    | 95    | 124   | 155   | 131   |
|        | 19. Dysentery .....                                 | 52   | 40    | 44    | 28    | 42    | 68    | 54    | 40    |
|        | GROUP 5.                                            |      |       |       |       |       |       |       |       |
|        | 1. Nephritis (Bright's Disease, etc.) .....         | 46   | 54    | 61    | 56    | 51    | 44    | 93    | 90    |
|        | 2. Ischuria .....                                   |      |       |       |       |       |       | 2     |       |
|        | 3. Diabetes .....                                   | 9    | 4     | 15    | 15    | 16    | 13    | 15    | 25    |
|        | 4. Calculus (Gravel, etc.) .....                    | 9    | 1     | 1     |       | 1     |       | 1     |       |
|        | 5. Cystitis .....                                   |      |       |       |       |       |       | 8     | 7     |
|        | 6. Prostate Disease .....                           | 2    | 4     | 4     | 4     | 1     | 3     | 7     | 4     |
|        | 7. Kidney Diseases, etc. ....                       | 21   | 27    | 20    | 35    | 25    | 44    | 36    | 39    |
|        | 8. Bladder Diseases, etc. ....                      | 11   | 2     | 12    | 9     | 13    | 14    | 11    | 13    |
|        | GROUP 6.                                            |      |       |       |       |       |       |       |       |
|        | 1. Diseases of Male Organs of Generation .....      |      |       |       |       |       |       |       |       |
|        | 2. Ovarian Diseases .....                           |      |       |       |       |       |       | 6     | 12    |
|        | 3. Uterine Diseases, etc. ....                      | 4    | 1     |       | 7     | 3     | 6     | 20    | 2     |
|        | GROUP 7.                                            |      |       |       |       |       |       |       |       |
|        | 1. Arthritis .....                                  |      |       |       |       |       |       |       |       |
|        | 2. Joint Diseases, etc. ....                        | 15   | 10    | 20    | 15    | 11    | 25    | 26    | 32    |
|        | GROUP 8.                                            |      |       |       |       |       |       |       |       |
|        | 1. Phlegmon .....                                   | 7    | 13    | 14    | 5     | 17    | 14    | 18    | 18    |
|        | 2. Ulcer .....                                      | 2    | 2     |       |       | 3     | 2     | 1     | 4     |
|        | 3. Skin Diseases, etc. ....                         | 3    | 5     | 3     | 2     | 3     | 1     |       | 5     |
|        | GROUP 9.                                            |      |       |       |       |       |       |       |       |
|        | 1. Eye and Ear .....                                |      |       |       |       |       |       |       |       |
| IV.    | GROUP 1.                                            |      |       |       |       |       |       |       |       |
|        | 1. Stillborn .....                                  | 242  | 248   | 216   | 192   | 264   | 253   | 253   | 272   |
|        | 2. Cholera Infantum .....                           | 239  | 168   | 161   | 247   | 210   | 325   | 242   | 325   |
|        | 3. Convulsions .....                                | 83   | 112   | 104   | 133   | 102   | 110   | 126   | 139   |
|        | 4. Cyanosis .....                                   |      |       |       | 3     |       |       | 17    | 5     |
|        | 5. Debility (Infantile), Premature Birth, etc. .... | 67   | 72    | 69    | 92    | 92    | 101   | 137   | 128   |
|        | 6. Teething .....                                   | 27   | 16    | 22    | 25    | 28    | 33    | 30    | 21    |
|        | 7. Hemorrhage, Umbilical .....                      |      |       |       |       |       |       |       |       |
|        | 8. Icterus Neonatorum .....                         |      |       |       |       |       |       |       |       |
|        | 9. Indigestion .....                                |      |       |       |       |       |       |       |       |
|        | 10. Inanition .....                                 |      |       |       |       |       |       |       |       |
|        | 11. Spina Bifida .....                              |      |       |       |       |       |       |       |       |
|        | 12. Other Malformations .....                       | 26   | 32    | 19    | 13    | 26    | 21    | 19    | 22    |

*Causes of Deaths Registered in Rhode Island.*

| 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | 1898. | 1899. | 1900. | TOTAL AND PER<br>CENTAGE<br>FOR 45 YEARS,<br>1853-1897. |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------------------------------------|-------|
| ...   | ...   | 1     | 2     | ...   | 1     | 1     | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 5                                                       | ..... |
| 9     | 9     | 8     | 7     | 6     | 5     | 3     | 12    | 7     | 12    | 9     | 17    | 15    | 3     | 12    | 14    | 223                                                     | .11   |
| 168   | 174   | 176   | 228   | 260   | 275   | 247   | 308   | 315   | 254   | 274   | 276   | 226   | 236   | 241   | 295   | 4,371                                                   | 2.08  |
| 7     | 12    | 15    | 18    | 23    | 18    | 26    | 34    | 32    | 24    | 38    | 32    | 18    | 19    | 14    | 21    | 704                                                     | .34   |
| 94    | 90    | 113   | 79    | 80    | 83    | 67    | 89    | 50    | 32    | 30    | 24    | 17    | 9     | 11    | 18    | 3,087                                                   | 1.47  |
| 21    | 15    | 20    | 18    | 16    | 23    | 28    | 12    | 17    | 21    | 24    | 21    | 17    | 12    | 21    | 20    | 454                                                     | .22   |
| ...   | 5     | 13    | 11    | 17    | 18    | 6     | 10    | 27    | 20    | 8     | 1     | 1     | 4     | 5     | 9     | 467                                                     | .22   |
| 29    | 30    | 34    | 37    | 42    | 38    | 25    | 53    | 47    | 43    | 62    | 52    | 62    | 76    | 59    | 44    | 924                                                     | .41   |
| 64    | 85    | 13    | 88    | 78    | 63    | 71    | 73    | 68    | 175   | 194   | 197   | 180   | 176   | 217   | 263   | 2,338                                                   | 1.12  |
| 35    | 59    | 66    | 60    | 63    | 68    | 68    | 62    | 74    | 31    | ...   | ...   | ...   | ...   | ...   | ...   | 1,112                                                   | .53   |
| ...   | 2     | ...   | 1     | 7     | 2     | 3     | 3     | 5     | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 29                                                      | .01   |
| ...   | 1     | 5     | 3     | 1     | ...   | 7     | 4     | ...   | 8     | 1     | ...   | 2     | 8     | 2     | 5     | 37                                                      | .02   |
| 10    | 15    | 13    | 11    | 10    | 16    | 16    | 22    | 15    | 15    | 19    | 8     | 14    | 28    | 18    | 22    | 340                                                     | .16   |
| 17    | 13    | 15    | 22    | 30    | 20    | 18    | 21    | 16    | 17    | 24    | 29    | 25    | 45    | 28    | 31    | 506                                                     | .24   |
| 4     | 1     | ...   | 3     | 2     | 2     | 6     | 2     | 11    | 4     | 7     | 7     | 8     | 8     | 6     | 10    | 93                                                      | .04   |
| 2     | 1     | 2     | ...   | 1     | 1     | ...   | 3     | 3     | ...   | 4     | ...   | ...   | ...   | ...   | 1     | 25                                                      | .01   |
| ...   | 1     | 1     | 1     | 1     | 1     | 1     | ...   | 1     | 1     | 2     | ...   | 2     | 1     | 1     | 2     | 12                                                      | .01   |
| 22    | 29    | 34    | 24    | 33    | 35    | 32    | 14    | 17    | 19    | 23    | 15    | 19    | 17    | 20    | 59    | 644                                                     | .31   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | 1     | ...   | 1     | ...   | ...   | 2     | 1     | 1     | ...   | 4                                                       | ..... |
| 6     | 9     | 9     | 3     | 7     | 9     | 7     | 15    | 14    | 9     | 10    | 28    | 7     | 14    | 9     | 17    | 252                                                     | .12   |
| 9     | 2     | 12    | 12    | 11    | 15    | 19    | 13    | 10    | 11    | 5     | 15    | 7     | 7     | 11    | 9     | 252                                                     | .12   |
| 47    | 60    | 65    | 53    | 63    | 56    | 55    | 61    | 72    | 73    | 70    | 60    | 49    | 80    | 76    | 93    | 1,787                                                   | .85   |
| ...   | 1     | 1     | 1     | ...   | ...   | ...   | ...   | ...   | 1     | 3     | 1     | ...   | 1     | 1     | ...   | 24                                                      | .01   |
| 8     | 10    | 10    | 10    | 7     | 14    | 15    | 17    | 71    | 46    | 37    | 85    | 76    | 87    | 32    | 17    | 617                                                     | .29   |
| 104   | 110   | 151   | 110   | 114   | 131   | 112   | 160   | 162   | 105   | 79    | 58    | 62    | 60    | 67    | 44    | 3,982                                                   | 1.90  |
| 36    | 66    | 66    | 77    | 71    | 87    | 59    | 71    | 42    | 41    | 41    | 31    | 45    | 38    | 44    | 86    | 3,098                                                   | 1.48  |
| 143   | 140   | 130   | 192   | 176   | 213   | 220   | 230   | 238   | 266   | 314   | 309   | 379   | 457   | 463   | 507   | 3,826                                                   | 1.82  |
| ...   | ...   | ...   | ...   | ...   | 1     | 2     | 2     | ...   | ...   | 8     | ...   | ...   | ...   | ...   | ...   | 16                                                      | .01   |
| 21    | 24    | 22    | 13    | 32    | 27    | 26    | 37    | 40    | 38    | 40    | 41    | 48    | 39    | 40    | 50    | 644                                                     | .31   |
| 1     | ...   | 1     | 1     | 5     | 2     | 2     | ...   | 4     | 5     | 6     | 3     | 4     | 2     | 7     | 4     | 91                                                      | .04   |
| 12    | 23    | 17    | 10    | 18    | 36    | 15    | 18    | 22    | 21    | 16    | 21    | 16    | 19    | 31    | 16    | 278                                                     | .13   |
| 4     | 8     | 7     | 4     | 1     | 2     | 8     | 5     | 3     | 10    | 15    | 10    | 7     | 12    | 13    | 10    | 147                                                     | .07   |
| 25    | 24    | 39    | 21    | 34    | 16    | 16    | 39    | 44    | 47    | 31    | 27    | 8     | 14    | 14    | 11    | 947                                                     | .45   |
| 9     | 3     | 4     | 3     | 6     | 3     | 2     | 4     | 6     | 10    | 6     | 1     | 9     | 4     | 5     | 3     | 237                                                     | .11   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | 1     | ...   | ...   | 2     | ...   | ...   | ...   | ...   | ...   | 3                                                       | ..... |
| 8     | 8     | 5     | 5     | 4     | 4     | 8     | 6     | 9     | 14    | 17    | 16    | 8     | 12    | 8     | 16    | 141                                                     | .07   |
| 6     | 4     | 9     | 5     | 6     | 4     | 7     | 8     | 11    | 18    | 24    | 37    | 30    | 24    | 23    | 28    | 265                                                     | .13   |
| ...   | ...   | 1     | ...   | 1     | 2     | 1     | 2     | 5     | 1     | ...   | ...   | ...   | ...   | ...   | 2     | 13                                                      | .01   |
| 34    | 26    | 22    | 15    | 17    | 23    | 19    | 15    | 9     | 18    | 23    | 22    | 18    | 12    | 18    | 13    | 639                                                     | .30   |
| 21    | 13    | 15    | 19    | 7     | 18    | 6     | 5     | ...   | 1     | 7     | 24    | 13    | 29    | 6     | ...   | 436                                                     | .21   |
| ...   | 6     | 1     | ...   | ...   | 2     | 4     | 1     | ...   | ...   | ...   | ...   | ...   | ...   | 1     | ...   | 70                                                      | .03   |
| 2     | 3     | 4     | 7     | 3     | 7     | 3     | 4     | 5     | 26    | 10    | 12    | 3     | 4     | 5     | 5     | 160                                                     | .08   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 2     | 10    | 11    | 5     | 8     | 4     | 6     | 8     | 36                                                      | .02   |
| 271   | 293   | 276   | 295   | 329   | 296   | 272   | 343   | 412   | 392   | 367   | 424   | 423   | 413   | 389   | 374   | 10,561                                                  | 5.04  |
| 279   | 377   | 355   | 467   | 427   | 582   | 545   | 633   | 603   | 496   | 500   | 545   | 125   | 46    | 473   | 557   | 11,892                                                  | 5.67  |
| 111   | 121   | 159   | 154   | 136   | 156   | 137   | 162   | 151   | 147   | 120   | 102   | 65    | 49    | 35    | 43    | 4,381                                                   | 2.09  |
| 6     | 11    | 10    | 16    | 11    | 14    | 23    | 19    | 21    | 27    | 27    | 20    | 31    | 24    | 13    | 11    | 296                                                     | .13   |
| 132   | 157   | 211   | 230   | 195   | 225   | 251   | 245   | 224   | 373   | 339   | 383   | 366   | 248   | 282   | 315   | 5,446                                                   | 2.59  |
| 29    | 26    | 24    | 35    | 44    | 27    | 52    | 18    | 27    | 34    | 28    | ...   | 3     | ...   | ...   | ...   | 1,237                                                   | .59   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 5     | 5     | 18    | 8     | 6     | 2     | 8     | 5     | 42                                                      | .02   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 5     | 7     | 6     | 9     | 12    | 20    | 18                                                      | .01   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 23    | 40    | 63    | 75    | 74    | 69    | 126                                                     | .06   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 31    | 37    | 39    | 85    | 142   | 167   | 107                                                     | .05   |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 8     | 5     | 11    | 9     | 9     | 8     | 68                                                      | .03   |
| 15    | 15    | 18    | 16    | 15    | 19    | 20    | 15    | 19    | 15    | 27    | 21    | 21    | 26    | 38    | 39    | 707                                                     | .33   |

TABLE X.—Continued.

| Class. | CAUSES OF DEATH.                      | 1853. | 1854. | 1855. | 1856. | 1857. | 1858. | 1859. |
|--------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| IV.    | GROUP 2.                              |       |       |       |       |       |       |       |
|        | 1. Paramenia.....                     |       |       |       |       |       |       |       |
|        | 2. Childbirth.....                    | 10    | 7     | 9     | 14    | 13    | 24    | 14    |
|        |                                       |       |       |       |       |       |       |       |
|        | GROUP 3.                              |       |       |       |       |       |       |       |
|        | 1. Old Age.....                       | 58    | 67    | 84    | 76    | 119   | 114   | 117   |
|        |                                       |       |       |       |       |       |       |       |
|        | GROUP 4.                              |       |       |       |       |       |       |       |
|        | 1. Atrophy and Debility.....          | 18    | 28    | 47    | 58    | 53    | 55    | 43    |
| V.     | GROUP 1.                              |       |       |       |       |       |       |       |
|        | (ACCIDENTS OR NEGLIGENCE.)            |       |       |       |       |       |       |       |
|        | 1. Fractures and Contusions *.....    | 1     | 1     | ....  | 4     | ....  | ....  | ....  |
|        | 2. Burns and Scalds.....              | 9     | 9     | 14    | 12    | 7     | 6     | 13    |
|        | 3. Drowning.....                      | 13    | 15    | 18    | 13    | 20    | 24    | 24    |
|        | 4. Falls.....                         | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
|        | 5. Poison.....                        | 1     | 3     | 6     | 4     | 3     | 5     | 4     |
|        | 6. Suffocation and Strangulation..... | 2     | 2     | ....  | 7     | 3     | ....  | 1     |
|        | 7. Otherwise.....                     | 31    | 23    | 19    | 16    | 40    | 38    | 37    |
|        |                                       |       |       |       |       |       |       |       |
|        | GROUP 2.                              |       |       |       |       |       |       |       |
|        | 1. Battle.....                        | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
|        |                                       |       |       |       |       |       |       |       |
|        | GROUP 3.                              |       |       |       |       |       |       |       |
|        | 1. Homicide... ..                     | 3     | ....  | 9     | 1     | 1     | 1     | 1     |
|        |                                       |       |       |       |       |       |       |       |
|        | GROUP 4.                              |       |       |       |       |       |       |       |
|        | 1. Suicide.....                       | 3     | 3     | 8     | 4     | 8     | 13    | 9     |
|        | —                                     |       |       |       |       |       |       |       |
|        | Causes ill-defined.....               | 15    | 20    | 19    | 14    | 30    | 14    | 22    |
|        | —                                     |       |       |       |       |       |       |       |
|        | Causes not stated.....                | 100   | 131   | 169   | 292   | 258   | 296   | 241   |

\* Includes railroad accidents.

*Causes of Deaths Registered in Rhode Island.*

| 1860. | 1861. | 1862. | 1863. | 1864. | 1865. | 1866. | 1867. | 1868. | 1869. | 1870. | 1871. | 1872. | 1873. | 1874. | 1875. | 1876. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ....  | ....  | 1     | ....  | 2     | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 13    | 19    | 22    | 21    | 21    | 18    | 24    | 26    | 22    | 27    | 28    | 34    | 36    | 29    | 44    | 35    | 30    |
| 116   | 132   | 143   | 161   | 193   | 152   | 178   | 188   | 206   | 217   | 204   | 232   | 233   | 254   | 223   | 216   | 241   |
| 52    | 62    | 47    | 40    | 42    | 47    | 42    | 41    | 41    | 52    | 56    | 58    | 69    | 84    | 79    | 90    | 78    |
| ....  | ....  | ....  | ....  | ....  | ....  | 12    | 8     | 8     | 6     | 9     | 12    | 15    | 16    | 16    | 12    | 10    |
| 24    | 21    | 14    | 10    | 12    | 16    | 18    | 16    | 16    | 15    | 12    | 12    | 12    | 14    | 23    | 17    | 12    |
| 32    | 29    | 29    | 21    | 26    | 20    | 27    | 23    | 20    | 24    | 30    | 24    | 29    | 36    | 39    | 35    | 37    |
| ....  | ....  | ....  | ....  | ....  | ....  | 17    | 14    | 18    | 21    | 19    | 25    | 18    | 15    | 12    | 20    | 12    |
| 7     | 9     | 2     | 1     | 3     | 2     | 6     | 2     | ....  | 4     | 4     | 2     | 1     | 5     | 5     | 6     | 4     |
| 1     | 3     | 3     | 1     | 1     | 1     | ....  | ....  | ....  | ....  | ....  | ....  | ....  | 4     | 6     | 5     | 9     |
| 55    | 31    | 43    | 71    | 64    | 51    | 39    | 39    | 35    | 35    | 33    | 31    | 51    | 55    | 27    | 47    | 47    |
| ....  | ....  | 7     | 3     | 2     | 1     | 1     | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  |
| 4     | 3     | 1     | 5     | 2     | ....  | 1     | 5     | ....  | 2     | 5     | ....  | 2     | 3     | 4     | 3     | 4     |
| 12    | 12    | 8     | 13    | 6     | 12    | 11    | 15    | 18    | 15    | 27    | 19    | 18    | 8     | 18    | 26    | 18    |
| 37    | 18    | 21    | 20    | 31    | 40    | 33    | 30    | 48    | 51    | 59    | 43    | 87    | 70    | 57    | 56    | 32    |
| 188   | 202   | 188   | 217   | 209   | 207   | 171   | 195   | 288   | 300   | 137   | 249   | 376   | 217   | 152   | 207   | 213   |



TABLE X.—Concluded.

| Class. | CAUSES OF DEATH.                      | 1877. | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. |
|--------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| IV.    | GROUP 2.                              |       |       |       |       |       |       |       |       |
|        | 1. Paramenia .....                    |       |       | 1     |       |       |       | 2     | 4     |
|        | 2. Childbirth.....                    | 29    | 26    | 35    | 36    | 38    | 22    | 42    | 35    |
|        | GROUP 3.                              |       |       |       |       |       |       |       |       |
|        | 1. Old Age.....                       | 213   | 222   | 220   | 273   | 247   | 283   | 275   | 293   |
|        | GROUP 4.                              |       |       |       |       |       |       |       |       |
|        | 1. Atrophy and Debility .....         | 89    | 64    | 79    | 107   | 82    | 106   | 130   | 126   |
| V.     | GROUP 1.                              |       |       |       |       |       |       |       |       |
|        | (ACCIDENTS OR NEGLIGENCE.)            |       |       |       |       |       |       |       |       |
|        | 1. Fractures and Contusions*.....     | 13    | 7     | 10    | 18    | 20    | 16    | 16    | 16    |
|        | 2. Burns and Scalds.....              | 18    | 11    | 13    | 21    | 16    | 17    | 18    | 20    |
|        | 3. Drowning.....                      | 30    | 44    | 22    | 33    | 29    | 40    | 27    | 41    |
|        | 4. Falls.....                         | 14    | 13    | 16    | 14    | 19    | 31    | 21    | 31    |
|        | 5. Poison.....                        | 9     | 6     | 7     | 5     | 9     | 7     | 10    | 8     |
|        | 6. Suffocation and Strangulation..... | 5     |       |       |       | 19    | 8     | 12    | 11    |
|        | 7. Otherwise.....                     | 48    | 54    | 45    | 55    | 43    | 59    | 53    | 70    |
|        | GROUP 2.                              |       |       |       |       |       |       |       |       |
|        | 1. Battle.....                        |       |       |       |       |       |       |       |       |
|        | GROUP 3.                              |       |       |       |       |       |       |       |       |
|        | 1. Homicide.....                      | 3     | 3     | 1     | 1     | 4     | 6     | 3     | 2     |
|        | GROUP 4.                              |       |       |       |       |       |       |       |       |
|        | 1. Suicide.....                       | 22    | 21    | 13    | 10    | 23    | 31    | 25    | 22    |
|        | Causes ill-defined.....               | 56    | 49    | 48    | 46    | 55    | 45    | 22    | 19    |
|        | Causes not stated.....                | 192   | 210   | 254   | 233   | 347   | 271   | 186   | 42    |

\* Includes railroad accidents.

*Causes of Deaths Registered in Rhode Island.*

| 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | 1898. | 1899. | 1900. | TOTAL AND PER<br>CENTAGE<br>FOR 45 YEARS<br>1853-1897. |      |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------------------------------------|------|
| 2     | ...   | 1     | ...   | ...   | ...   | 1     | 2     | ...   | ...   | ...   | 4     | 3     | ...   | ...   | ...   | 23                                                     | .01  |
| 26    | 31    | 28    | 33    | 27    | 26    | 22    | 45    | 50    | 62    | 40    | 40    | 45    | 49    | 32    | 58    | 1,278                                                  | .61  |
| 267   | 276   | 278   | 290   | 227   | 198   | 185   | 256   | 183   | 187   | 197   | 206   | 159   | 161   | 170   | 268   | 9,125                                                  | 4.35 |
| 122   | 136   | 146   | 159   | 231   | 240   | 217   | 241   | 191   | 73    | 85    | 87    | 94    | 50    | 73    | ...   | 3,821                                                  | 1.82 |
| 15    | 20    | 47    | 33    | 48    | 57    | 59    | 89    | 25    | 19    | 36    | ...   | ...   | ...   | ...   | ...   | 694                                                    | .33  |
| 19    | 23    | 17    | 27    | 20    | 20    | 18    | 21    | 26    | 28    | 28    | 25    | 41    | 21    | 28    | 33    | 781                                                    | .37  |
| 42    | 58    | 39    | 46    | 52    | 71    | 52    | 48    | 47    | 52    | 61    | 39    | 40    | 60    | 45    | 64    | 1,521                                                  | .72  |
| 25    | 19    | 17    | 18    | 31    | 32    | 21    | 33    | 25    | 28    | 57    | 48    | 64    | 58    | 61    | 72    | 768                                                    | .37  |
| 9     | 6     | 7     | 12    | 7     | 11    | 16    | 23    | 14    | 6     | 8     | 8     | 7     | 8     | 7     | 16    | 284                                                    | .14  |
| 10    | 10    | 14    | 8     | 9     | 12    | 17    | 26    | 14    | 21    | 22    | 24    | 22    | 19    | 31    | 29    | 313                                                    | %.15 |
| 58    | 58    | 65    | 46    | 49    | 47    | 50    | 69    | 113   | 80    | 81    | 152   | 89    | 130   | 104   | 122   | 2,342                                                  | 1.12 |
| ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | ...   | 14                                                     | .01  |
| 3     | 2     | 2     | 5     | 3     | 2     | 1     | 4     | 3     | 9     | 6     | 2     | 12    | 13    | 15    | 10    | 137                                                    | .06  |
| 20    | 17    | 16    | 21    | 24    | 19    | 40    | 19    | 21    | 45    | 31    | 38    | 41    | 46    | 41    | 55    | 823                                                    | .39  |
| 57    | 39    | 35    | 46    | 49    | 45    | 35    | 34    | 31    | 2     | 31    | 46    | 20    | 24    | 23    | 23    | 1,680                                                  | .80  |
| 59    | 51    | 19    | 28    | 39    | 43    | 34    | 28    | 68    | 55    | 52    | 29    | 25    | 20    | 22    | 33    | 7,468                                                  | 3.56 |

TABLE X.—*Bertillon.*

| CAUSES OF DEATH.                                                | 1853. | 1854. | 1855. | 1856. | 1857. | 1858. | 1859. |
|-----------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| I.                                                              |       |       |       |       |       |       |       |
| GENERAL DISEASES.....                                           | 592   | 902   | 748   | 836   | 935   | 1,115 | 926   |
| II.                                                             |       |       |       |       |       |       |       |
| DISEASES OF THE NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE..... | 130   | 161   | 182   | 185   | 221   | 223   | 217   |
| III.                                                            |       |       |       |       |       |       |       |
| DISEASES OF THE CIRCULATORY APPARATUS.....                      | 29    | 40    | 66    | 44    | 71    | 72    | 65    |
| IV.                                                             |       |       |       |       |       |       |       |
| DISEASES OF THE RESPIRATORY APPARATUS.....                      | 94    | 116   | 151   | 213   | 234   | 267   | 219   |
| V.                                                              |       |       |       |       |       |       |       |
| DISEASES OF THE DIGESTIVE APPARATUS.....                        | 79    | 137   | 205   | 178   | 194   | 238   | 203   |
| VI.                                                             |       |       |       |       |       |       |       |
| DISEASES OF THE GENITO-URINARY APPARATUS AND ITS ADNEXA.....    | 10    | 8     | 13    | 12    | 25    | 21    | 20    |
| VII.                                                            |       |       |       |       |       |       |       |
| PUERPERAL STATE.....                                            | 12    | 9     | 15    | 24    | 21    | 31    | 25    |
| VIII.                                                           |       |       |       |       |       |       |       |
| DISEASES OF THE SKIN AND CELLULAR TISSUE.....                   | 7     | 5     | 12    | 12    | 17    | 12    | 6     |
| IX.                                                             |       |       |       |       |       |       |       |
| DISEASES OF THE ORGANS OF LOCOMOTION.....                       | 3     | 1     | 2     | 7     | 6     | 6     | 9     |
| X.                                                              |       |       |       |       |       |       |       |
| MALFORMATIONS.....                                              | 3     | 7     | 11    | 5     | 12    | 14    | 14    |
| XI.                                                             |       |       |       |       |       |       |       |
| EARLY INFANCY.....                                              | 10    | 34    | 63    | 33    | 52    | 62    | 56    |
| XII.                                                            |       |       |       |       |       |       |       |
| OLD AGE.....                                                    | 58    | 67    | 84    | 76    | 119   | 114   | 117   |
| XIII.                                                           |       |       |       |       |       |       |       |
| AFFECTIONS PRODUCED BY EXTERNAL CAUSES.....                     | 63    | 56    | 74    | 61    | 82    | 87    | 89    |
| XIV.                                                            |       |       |       |       |       |       |       |
| ILL-DEFINED DISEASES.....                                       | 160   | 185   | 220   | 356   | 336   | 354   | 304   |
| TOTAL NUMBER OF DEATHS.....                                     | 1,250 | 1,728 | 1,816 | 2,042 | 2,325 | 2,616 | 2,270 |

TABLE X.—*Berillon*.—Continued.

| 1860. | 1861. | 1862. | 1863  | 1864. | 1865. | 1866. | 1867. | 1868. | 1869. | 1870. | 1871. | 1872. | 1873. | 1874. | 1875. | 1876  | 1877. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1,067 | 1,255 | 1,042 | 1,467 | 1,480 | 1,655 | 1,259 | 1,101 | 1,065 | 1,433 | 1,278 | 1,199 | 1,404 | 1,635 | 1,635 | 1,482 | 1,504 | 1,874 |
| 245   | 287   | 231   | 282   | 296   | 286   | 294   | 320   | 277   | 320   | 342   | 379   | 446   | 512   | 434   | 454   | 444   | 471   |
| 76    | 112   | 115   | 103   | 128   | 99    | 117   | 116   | 117   | 130   | 123   | 148   | 190   | 193   | 220   | 192   | 173   | 192   |
| 272   | 282   | 251   | 314   | 341   | 302   | 292   | 264   | 265   | 280   | 288   | 341   | 379   | 390   | 414   | 591   | 530   | 417   |
| 336   | 287   | 285   | 277   | 351   | 316   | 275   | 285   | 292   | 301   | 383   | 317   | 628   | 508   | 505   | 549   | 476   | 513   |
| 22    | 28    | 24    | 34    | 23    | 24    | 24    | 43    | 37    | 40    | 41    | 52    | 75    | 80    | 83    | 75    | 66    | 93    |
| 22    | 26    | 27    | 35    | 37    | 31    | 31    | 34    | 34    | 37    | 44    | 52    | 45    | 46    | 60    | 53    | 48    | 46    |
| 21    | 29    | 16    | 17    | 18    | 21    | 21    | 29    | 21    | 14    | 19    | 28    | 24    | 30    | 29    | 29    | 35    | 23    |
| 5     | 15    | 8     | 9     | 7     | 5     | 5     | 6     | 12    | 11    | 15    | 5     | 11    | 18    | 15    | 16    | 27    | 15    |
| 15    | 13    | 11    | 13    | 8     | 10    | 12    | 17    | 16    | 15    | 14    | 15    | 17    | 15    | 17    | 15    | 11    | 26    |
| 73    | 85    | 76    | 81    | 74    | 93    | 77    | 90    | 70    | 58    | 91    | 73    | 131   | 219   | 196   | 155   | 97    | 94    |
| 116   | 132   | 113   | 161   | 193   | 152   | 178   | 188   | 206   | 217   | 204   | 232   | 233   | 254   | 223   | 216   | 241   | 213   |
| 135   | 108   | 107   | 125   | 116   | 103   | 132   | 122   | 115   | 122   | 139   | 125   | 146   | 156   | 150   | 171   | 153   | 162   |
| 281   | 268   | 255   | 289   | 288   | 308   | 253   | 274   | 385   | 404   | 257   | 348   | 518   | 347   | 248   | 319   | 311   | 311   |
| 2,686 | 2,927 | 2,591 | 3,207 | 3,360 | 3,405 | 2,970 | 2,889 | 2,912 | 3,382 | 3,238 | 3,344 | 4,247 | 4,103 | 4,229 | 4,317 | 4,116 | 4,450 |

TABLE X.—*Bertillon*.—Continued.

| CAUSES OF DEATH.                                                | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. |
|-----------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| I.                                                              |       |       |       |       |       |       |       |
| GENERAL DISEASES.....                                           | 1,888 | 1,830 | 1,879 | 1,829 | 1,729 | 1,809 | 1,800 |
| II.                                                             |       |       |       |       |       |       |       |
| DISEASES OF THE NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE..... | 492   | 534   | 571   | 609   | 630   | 660   | 671   |
| III.                                                            |       |       |       |       |       |       |       |
| DISEASES OF THE CIRCULATORY APPARATUS.....                      | 173   | 209   | 243   | 274   | 256   | 336   | 294   |
| IV.                                                             |       |       |       |       |       |       |       |
| DISEASES OF THE RESPIRATORY APPARATUS.....                      | 523   | 514   | 574   | 565   | 558   | 648   | 597   |
| V.                                                              |       |       |       |       |       |       |       |
| DISEASES OF THE DIGESTIVE APPARATUS.....                        | 395   | 381   | 487   | 508   | 672   | 608   | 690   |
| VI.                                                             |       |       |       |       |       |       |       |
| DISEASES OF THE GENITO-URINARY APPARATUS AND ITS ADNEXA.....    | 89    | 98    | 111   | 97    | 111   | 184   | 167   |
| VII.                                                            |       |       |       |       |       |       |       |
| PUERPERAL STATE.....                                            | 43    | 45    | 51    | 60    | 50    | 60    | 51    |
| VIII.                                                           |       |       |       |       |       |       |       |
| DISEASES OF THE SKIN AND CELLULAR TISSUE.....                   | 30    | 32    | 18    | 39    | 24    | 32    | 46    |
| IX.                                                             |       |       |       |       |       |       |       |
| DISEASES OF THE ORGANS OF LOCOMOTION....                        | 10    | 20    | 15    | 11    | 25    | 26    | 32    |
| X.                                                              |       |       |       |       |       |       |       |
| MALFORMATIONS.....                                              | 32    | 19    | 13    | 26    | 21    | 19    | 22    |
| XI.                                                             |       |       |       |       |       |       |       |
| EARLY INFANCY.....                                              | 88    | 91    | 121   | 120   | 134   | 184   | 154   |
| XII.                                                            |       |       |       |       |       |       |       |
| OLD AGE.....                                                    | 222   | 220   | 273   | 247   | 283   | 275   | 293   |
| XIII.                                                           |       |       |       |       |       |       |       |
| AFFECTIONS PRODUCED BY EXTERNAL CAUSES.....                     | 159   | 127   | 157   | 182   | 215   | 185   | 221   |
| XIV.                                                            |       |       |       |       |       |       |       |
| ILL-DEFINED DISEASES.....                                       | 297   | 352   | 316   | 449   | 366   | 256   | 103   |
| TOTAL NUMBER OF DEATHS.....                                     | 4,441 | 4,472 | 4,820 | 5,016 | 5,074 | 5,282 | 5,141 |

TABLE X.—*Bertillon*.—Continued.

| 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | 1898. | 1899. | 1900  | TOTAL AND PER-<br>CENTAGE<br>FOR 45 YEARS,<br>1853-1897. |        |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------------------------------|--------|
| 1,851 | 2,056 | 2,301 | 2,288 | 2,097 | 2,420 | 2,153 | 2,373 | 2,280 | 2,166 | 2,237 | 2,093 | 2,035 | 1,820 | 2,117 | 2,578 | 72,003                                                   | 36.16  |
| 658   | 737   | 803   | 827   | 706   | 789   | 763   | 846   | 883   | 924   | 941   | 891   | 935   | 902   | 857   | 928   | 22,509                                                   | 11.30  |
| 361   | 336   | 414   | 449   | 474   | 419   | 489   | 510   | 540   | 481   | 538   | 500   | 571   | 554   | 656   | 715   | 10,858                                                   | 5.45   |
| 764   | 786   | 833   | 869   | 885   | 991   | 945   | 1,120 | 1,214 | 1,028 | 1,068 | 1,040 | 929   | 825   | 900   | 1,343 | 23,958                                                   | 12.03  |
| 613   | 790   | 804   | 880   | 871   | 1,020 | 976   | 1,126 | 1,156 | 1,035 | 1,098 | 1,191 | 1,088 | 1,234 | 1,243 | 1,423 | 24,487                                                   | 12.30  |
| 208   | 210   | 212   | 211   | 250   | 281   | 289   | 303   | 357   | 391   | 434   | 484   | 461   | 542   | 564   | 593   | 5,951                                                    | 2.99   |
| 47    | 41    | 54    | 51    | 44    | 45    | 35    | 77    | 57    | 72    | 55    | 54    | 60    | 71    | 55    | 99    | 1,897                                                    | .95    |
| 43    | 30    | 38    | 45    | 36    | 48    | 31    | 35    | 25    | 43    | 20    | 38    | 20    | 35    | 12    | 25    | 1,168                                                    | .59    |
| 34    | 26    | 23    | 15    | 18    | 25    | 20    | 17    | 14    | 19    | 23    | 22    | 18    | 12    | 18    | 9     | 652                                                      | .33    |
| 15    | 15    | 18    | 20    | 19    | 25    | 28    | 16    | 24    | 23    | 32    | 32    | 30    | 35    | 46    | 47    | 775                                                      | .39    |
| 167   | 194   | 245   | 281   | 250   | 266   | 326   | 282   | 277   | 439   | 417   | 418   | 412   | 283   | 315   | 333   | 7,009                                                    | 3.52   |
| 267   | 276   | 278   | 290   | 227   | 198   | 185   | 256   | 183   | 187   | 282   | 293   | 253   | 205   | 228   | 268   | 9,125                                                    | 4.58   |
| 201   | 213   | 224   | 216   | 243   | 271   | 273   | 331   | 287   | 288   | 330   | 336   | 315   | 354   | 331   | 429   | 7,673                                                    | 3.85   |
| 160   | 139   | 93    | 122   | 139   | 136   | 107   | 104   | 143   | 64    | 60    | 52    | 33    | 33    | 26    | 33    | 11,070                                                   | 5.56   |
| 5,389 | 5,849 | 6,340 | 6,594 | 6,259 | 6,934 | 6,650 | 7,356 | 7,440 | 7,160 | 7,535 | 7,504 | 7,110 | 6,905 | 7,458 | 8,823 | 199,135                                                  | 100.00 |



TABLE X.—*Bertillon*.—Continued.

| CAUSES OF DEATH.                                                | 1853. | 1854. | 1855. | 1856. | 1857. | 1858. | 1859. |
|-----------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| I.                                                              |       |       |       |       |       |       |       |
| GENERAL DISEASES.                                               |       |       |       |       |       |       |       |
| Typhoid Fever.....                                              | 25    | 39    | 63    | 53    | 76    | 42    | 70    |
| Intermittent Fever and Malarial Cachexia.....                   | 1     | 2     | 4     | 1     | 4     | 1     | 1     |
| Variola.....                                                    | 14    | 11    | 5     | 9     | ...   | ...   | 5     |
| Measles.....                                                    | ...   | 15    | 3     | 2     | 6     | 75    | 3     |
| Scarlatina.....                                                 | 108   | 46    | 71    | 208   | 147   | 234   | 71    |
| Whooping Cough.....                                             | 2     | 14    | 4     | 19    | 9     | 13    | 46    |
| Diphtheria and Croup.....                                       | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Diphtheria.....                                                 | ...   | 1     | ...   | ...   | 6     | 6     | 20    |
| Grippe.....                                                     | 2     | 1     | 4     | ...   | 15    | 6     | 2     |
| Cholera, Asiatic.....                                           | ...   | 176   | ...   | ...   | ...   | ...   | ...   |
| Cholera, Nostras.....                                           | 15    | 15    | 7     | 7     | 3     | 2     | 6     |
| Dysentery.....                                                  | 88    | 118   | 71    | 51    | 65    | 61    | 53    |
| Yellow Fever.....                                               | ...   | ...   | ...   | ...   | 1     | ...   | ...   |
| Erysipelas.....                                                 | 3     | 8     | 15    | 12    | 14    | 20    | 15    |
| Other Epidemic Affections.....                                  | ...   | ...   | ...   | ...   | ...   | 1     | ...   |
| Purulent Infection and Septicæmia.....                          | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Glanders and Farcy.....                                         | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Malignant Pustule and Charbon (Anthrax).....                    | ...   | ...   | 1     | ...   | ...   | 1     | 6     |
| Rabies.....                                                     | 1     | ...   | ...   | 1     | ...   | ...   | 1     |
| Tubercle of Larynx.....                                         | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Tubercle of Lungs.....                                          | 243   | 349   | 345   | 305   | 400   | 426   | 436   |
| Tubercle of Meninges.....                                       | 33    | 40    | 58    | 47    | 52    | 65    | 56    |
| Tubercle, Abdominal.....                                        | ...   | ...   | ...   | ...   | 4     | 6     | 2     |
| Pott's Disease.....                                             | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Abscess, Cold and by Congestion.....                            | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Tubercle of other organs.....                                   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Tubercle, Generalized.....                                      | ...   | 1     | ...   | ...   | ...   | ...   | ...   |
| Scrofula.....                                                   | 6     | 5     | 8     | 7     | 11    | 11    | 8     |
| Syphilis.....                                                   | 1     | ...   | 1     | 2     | ...   | 3     | 5     |
| Blennorrhagia of the Adult.....                                 | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Cancer and other Malignant Tumors of the Buccal Cavity.....     | ...   | ...   | 1     | ...   | 1     | ...   | ...   |
| Cancer and other Malignant Tumors of Stomach and Liver.....     | ...   | 3     | 5     | 4     | 9     | 10    | ...   |
| Cancer, etc., of the Peritoneum, Intestines, and Rectum.....    | ...   | ...   | ...   | ...   | ...   | 3     | ...   |
| Cancer, etc., of the Genital Organs of the Female.....          | 2     | 1     | 3     | 5     | 4     | 3     | ...   |
| Cancer and other Malignant Tumors of Breast.....                | ...   | 1     | 2     | 1     | 4     | 6     | ...   |
| Cancer and other Malignant Tumors of the Skin.....              | ...   | ...   | 1     | 1     | ...   | ...   | ...   |
| Cancer and other Malignant Tumors of organs not specified.....  | 11    | 13    | 15    | 15    | 19    | 22    | 43    |
| Other Tumors (Tumors of Female Genital Organs excepted).....    | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Rheumatism, Acute, Articular.....                               | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Rheumatism, Chronic, and Gout.....                              | 2     | 1     | 2     | 4     | 7     | 4     | 7     |
| Scurbutus.....                                                  | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Diabetes.....                                                   | 1     | ...   | 3     | 3     | 3     | 3     | 3     |
| Goitre, Exophthalmic.....                                       | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Addison's Disease.....                                          | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Leukæmia.....                                                   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Anæmia and Chlorosis.....                                       | 2     | 7     | 4     | 5     | 6     | 12    | 2     |
| Other General Diseases.....                                     | 18    | 28    | 47    | 58    | 53    | 55    | 43    |
| Alcoholism, Acute and Chronic.....                              | 14    | 10    | 7     | 13    | 25    | 21    | 22    |
| Saturnism.....                                                  | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Other Chronic Poisonings.....                                   | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| II.                                                             |       |       |       |       |       |       |       |
| DISEASES OF THE NERVOUS SYSTEM AND THE ORGANS OF SPECIAL SENSE. |       |       |       |       |       |       |       |
| Encephalitis.....                                               | 28    | 19    | 26    | 19    | 25    | 42    | 20    |
| Meningitis, Simple.....                                         | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Meningitis, Epidemic Cerebro-Spinal.....                        | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Locomotor Ataxia, Progressive.....                              | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Other Diseases of the Spinal Cord.....                          | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Cerebral Congestion and Hemorrhage.....                         | 23    | 25    | 33    | 39    | 42    | 43    | 51    |
| Cerebral Softening.....                                         | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Paralysis, without specified cause.....                         | 12    | 6     | 20    | 9     | 21    | 21    | 28    |
| Paralysis, General.....                                         | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Other forms of Mental Alienation.....                           | 4     | 6     | 8     | 14    | 16    | 14    | 16    |
| Epilepsy.....                                                   | 4     | ...   | 8     | 6     | 8     | 9     | 6     |
| Convulsions of Children.....                                    | 29    | 68    | 53    | 64    | 57    | 57    | 50    |
| Tetanus.....                                                    | 3     | 3     | 3     | 4     | 6     | 1     | 3     |
| Chorea.....                                                     | ...   | ...   | ...   | ...   | 1     | ...   | 2     |
| Neuralgia.....                                                  | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Other Diseases of the Nervous System.....                       | 31    | 34    | 31    | 30    | 45    | 36    | 41    |
| Diseases of the Eye and Appendages.....                         | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Diseases of the Ear.....                                        | ...   | ...   | ...   | ...   | ...   | ...   | ...   |





TABLE X.—*Bertillon*.—Continued.

| 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | 1898. | 1899. | 1900. | TOTAL AND PER-<br>CENTAGE<br>FOR 45 YEARS,<br>1853-1897. |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------------------------------|-------|
| 105   | 121   | 116   | 221   | 135   | 107   | 149   | 133   | 129   | 160   | 125   | 113   | 66    | 76    | 90    | 127   | 5,485                                                    | 2.75  |
| 34    | 43    | 85    | 71    | 40    | 42    | 31    | 36    | 10    | 30    | 29    | 42    | 44    | 31    | 30    | 21    | 642                                                      | .32   |
| ..... | ..... | ..... | ..... | ..... | 1     | 1     | 4     | ..... | 2     | ..... | ..... | ..... | ..... | ..... | 1     | 213                                                      | .11   |
| 45    | 18    | 132   | 11    | 29    | 92    | 12    | 28    | 100   | 9     | 54    | 58    | 33    | 18    | 47    | 185   | 1,208                                                    | .61   |
| 91    | 88    | 266   | 207   | 51    | 16    | 33    | 67    | 193   | 123   | 107   | 53    | 29    | 21    | 29    | 94    | 5,860                                                    | 2.94  |
| 42    | 49    | 21    | 41    | 77    | 70    | 77    | 25    | 23    | 129   | 45    | 59    | 56    | 96    | 86    | 86    | 1,742                                                    | .88   |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 7     | 3     | 2     | 2     | 4     | 78    | 12                                                       | .01   |
| 99    | 228   | 287   | 191   | 184   | 211   | 102   | 89    | 157   | 193   | 340   | 283   | 281   | 93    | 86    | 112   | 5,702                                                    | 2.86  |
| 2     | 7     | ..... | 7     | 4     | 168   | 177   | 336   | 85    | 166   | 115   | 42    | 153   | 75    | 219   | 255   | 1,337                                                    | .67   |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 227                                                      | .11   |
| 24    | 17    | 21    | 30    | 26    | 36    | 28    | 33    | 35    | 23    | 19    | 18    | 16    | 14    | 13    | 18    | 705                                                      | .35   |
| 36    | 66    | 66    | 77    | 71    | 87    | 59    | 71    | 42    | 41    | 41    | 31    | 45    | 38    | 44    | 80    | 3,098                                                    | 1.56  |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2                                                        | .00   |
| 36    | 31    | 32    | 31    | 28    | 22    | 26    | 25    | 31    | 27    | 20    | 27    | 14    | 9     | 21    | 17    | 987                                                      | .50   |
| ..... | ..... | ..... | ..... | ..... | 2     | 1     | 1     | ..... | 3     | 4     | 3     | 1     | 1     | 3     | ..... | 31                                                       | .02   |
| 10    | 10    | 18    | 24    | 8     | 14    | 12    | 13    | 11    | 7     | ..... | ..... | ..... | ..... | ..... | 4     | 153                                                      | .08   |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1     | ..... | ..... | ..... | ..... | ..... | ..... | 2                                                        | .00   |
| 1     | ..... | 1     | 2     | 1     | ..... | ..... | 1     | 1     | ..... | 1     | ..... | ..... | ..... | ..... | ..... | 33                                                       | .02   |
| ..... | ..... | ..... | 1     | 2     | 4     | 1     | ..... | ..... | 2     | ..... | ..... | ..... | ..... | ..... | ..... | 22                                                       | .01   |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 7     | 4     | 2     | 5     | 5     | 8     | 13                                                       | .01   |
| 783   | 827   | 710   | 800   | 737   | 852   | 740   | 759   | 732   | 705   | 799   | 846   | 777   | 765   | 823   | 850   | 27,567                                                   | 13.84 |
| 47    | 54    | 54    | 50    | 58    | 72    | 66    | 62    | 53    | 51    | 58    | 73    | 71    | 71    | 81    | 89    | 2,511                                                    | 1.26  |
| 7     | 19    | 6     | 13    | 11    | 11    | 12    | 26    | 8     | 11    | 13    | 17    | 20    | 30    | 31    | 25    | 306                                                      | .15   |
| ..... | ..... | ..... | ..... | 2     | 1     | 3     | 3     | ..... | ..... | 1     | ..... | 3     | 1     | 5     | 6     | 13                                                       | .01   |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1                                                        | ..... |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....                                                    | ..... |
| 43    | 41    | 29    | 32    | 40    | 36    | 52    | 50    | 72    | 80    | 46    | 37    | 36    | 29    | 42    | 27    | 1,001                                                    | .50   |
| 18    | 23    | 21    | 12    | 15    | 10    | 18    | 15    | 13    | 12    | 12    | 12    | 20    | 4     | 1     | 2     | 610                                                      | .31   |
| 7     | 12    | 13    | 11    | 13    | 15    | 8     | 14    | 16    | 16    | 15    | 12    | 21    | 23    | 17    | 27    | 349                                                      | .18   |
| 1     | 1     | 1     | 2     | 1     | ..... | 3     | ..... | 1     | ..... | 1     | ..... | ..... | ..... | ..... | ..... | 20                                                       | .01   |
| ..... | ..... | 1     | 3     | 7     | 3     | 5     | 5     | 5     | ..... | 9     | 6     | 7     | 4     | 10    | 11    | 55                                                       | .03   |
| 53    | 48    | 45    | 58    | 60    | 49    | 50    | 47    | 68    | 68    | 63    | 59    | 78    | 100   | 93    | 121   | 1,127                                                    | .57   |
| 1     | 5     | 8     | 12    | 17    | 14    | 13    | 14    | 16    | 23    | 29    | 27    | 25    | 19    | 41    | 27    | 223                                                      | .11   |
| 26    | 23    | 21    | 25    | 26    | 30    | 28    | 26    | 45    | 42    | 49    | 47    | 60    | 72    | 42    | 52    | 759                                                      | .38   |
| 24    | 14    | 21    | 21    | 19    | 14    | 18    | 29    | 27    | 27    | 41    | 47    | 38    | 32    | 47    | 41    | 573                                                      | .29   |
| 3     | ..... | 5     | 1     | 4     | 5     | 2     | 1     | 5     | 14    | 11    | 15    | 10    | 13    | 14    | 21    | 84                                                       | .04   |
| 86    | 69    | 58    | 73    | 56    | 50    | 61    | 59    | 39    | 40    | 32    | 25    | 36    | 39    | 45    | 30    | 2,266                                                    | 1.13  |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 13                                                       | ..... |
| ..... | ..... | 33    | 33    | 28    | 39    | 32    | 45    | 37    | 26    | 16    | 20    | 20    | 16    | 15    | 24    | 352                                                      | .18   |
| 34    | 35    | 2     | 2     | 4     | 6     | 3     | 3     | 4     | 11    | 21    | 8     | 3     | 2     | 9     | 14    | 563                                                      | .28   |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1                                                        | ..... |
| 21    | 24    | 22    | 13    | 32    | 27    | 26    | 37    | 40    | 38    | 40    | 41    | 48    | 39    | 40    | 50    | 644                                                      | .32   |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3     | 2     | 2     | 2     | 1     | 2     | 7                                                        | .00   |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....                                                    | ..... |
| 6     | 15    | 16    | 13    | 21    | 19    | 20    | 16    | 23    | 20    | 29    | 31    | 24    | 18    | 23    | 37    | 400                                                      | .20   |
| 144   | 156   | 174   | 178   | 261   | 271   | 254   | 263   | 221   | 87    | 11    | 8     | 4     | 8     | 20    | ..... | 4,117                                                    | 2.07  |
| 22    | 16    | 16    | 37    | 25    | 29    | 36    | 47    | 39    | 24    | 34    | 39    | 45    | 34    | 62    | ..... | 978                                                      | .49   |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1     | 1     | ..... | ..... | ..... | 1     | 1     | 1     | 2     | 4                                                        | .00   |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 6     | ..... | ..... | .....                                                    | ..... |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....                                                    | ..... |
| 81    | 11    | 5     | 14    | 10    | 51    | 62    | 37    | 17    | 5     | 2     | ..... | ..... | ..... | ..... | ..... | 1,915                                                    | .96   |
| 13    | 93    | 107   | 119   | 99    | 121   | 116   | 130   | 120   | 140   | 145   | 165   | 166   | 187   | 155   | 191   | 1,705                                                    | .86   |
| 16    | 10    | 21    | 22    | 9     | 17    | 16    | 18    | 40    | 13    | 11    | 22    | 19    | 67    | 42    | 34    | 533                                                      | .27   |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 7                                                        | ..... |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 20                                                       | ..... |
| 185   | 230   | 206   | 211   | 210   | 242   | 219   | 238   | 276   | 289   | 417   | 404   | 455   | 402   | 445   | 473   | 6,017                                                    | 3.02  |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 22                                                       | ..... |
| 101   | 107   | 122   | 156   | 113   | 99    | 116   | 124   | 131   | 156   | 13    | 15    | 14    | 14    | 12    | 31    | 3,120                                                    | 1.57  |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 16                                                       | ..... |
| 35    | 49    | 61    | 43    | 22    | 30    | 21    | 27    | 39    | 49    | 72    | 53    | 103   | 82    | 66    | 54    | 1,148                                                    | .57   |
| 23    | 14    | 17    | 16    | 19    | 23    | 27    | 25    | 12    | 19    | 20    | 21    | 17    | 14    | 25    | 23    | 557                                                      | .28   |
| 111   | 121   | 159   | 154   | 186   | 156   | 137   | 162   | 151   | 147   | 120   | 102   | 65    | 49    | 35    | 43    | 4,881                                                    | 2.20  |
| 4     | 8     | 7     | 9     | 7     | 4     | 3     | 6     | 8     | 6     | 12    | 4     | 2     | ..... | ..... | ..... | 231                                                      | .12   |
| ..... | 2     | 1     | 2     | 1     | ..... | 1     | ..... | 4     | 1     | 1     | ..... | 1     | 1     | 1     | 2     | 23                                                       | .01   |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....                                                    | ..... |
| 86    | 92    | 91    | 81    | 80    | 46    | 45    | 79    | 83    | 89    | 180   | 106   | 87    | 84    | 71    | 1     | 2,850                                                    | 1.13  |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1     | 3     | ..... | 1     | ..... | 1     | 1     | 5                                                        | .00   |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2     | 9     | 5     | 3     | 5     | 2     | 4     | 7     | 24                                                       | .01   |





TABLE X.—*Bertillon*.—Continued.

[illegible]





TABLE X.—*Bertillon*.—Continued.

| 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | 1898. | 1899. | 1900. | TOTAL AND PER-<br>CENTAGE<br>FOR 45 YEARS,<br>1853-1897. |      |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------------------------------|------|
| 10    | 21    | 29    | 23    | 29    | 27    | 33    | 19    | 8     | 10    | 8     | 12    | 13    | 8     | 14    | 8     | 272                                                      | .14  |
| 339   | 297   | 358   | 400   | 413   | 363   | 420   | 468   | 485   | 411   | 449   | 458   | 466   | 479   | 512   | 512   | 9,857                                                    | 4.95 |
| 5     | 9     | 11    | 9     | 11    | 8     | 7     | 16    | 12    | 15    | 21    | 19    | 29    | 24    | 28    | 33    | 181                                                      | .09  |
| 4     | 2     | 5     | 6     | 7     | 8     | 5     | 3     | 4     | 4     | 7     | 6     | 4     | 2     | 5     | 13    | 120                                                      | .06  |
| 3     | 5     | 4     | 5     | 7     | 7     | 9     | 2     | 12    | 7     | 2     | 2     | 9     | 1     | 20    | 26    | 84                                                       | .04  |
| 1     | 3     | ....  | 2     | 1     | 2     | 1     | 4     | ....  | 2     | 3     | 2     | ....  | 2     | 3     | 34    | .02                                                      |      |
| 3     | 3     | 3     | 7     | 7     | 6     | 4     | 1     | 5     | 5     | 3     | 4     | 1     | 3     | 3     | 11    | 123                                                      | .06  |
| 103   | 99    | 121   | 96    | 86    | 88    | 70    | 101   | 57    | 44    | 39    | 41    | 32    | 12    | 23    | 31    | 3,310                                                    | 1.66 |
| 113   | 143   | 153   | 201   | 214   | 234   | 213   | 257   | 263   | 201   | 239   | 237   | 181   | 195   | 194   | 248   | 3,720                                                    | 1.87 |
| 55    | 31    | 23    | 27    | 46    | 41    | 34    | 51    | 52    | 53    | 35    | 39    | 45    | 41    | 47    | 47    | 651                                                      | .33  |
| 465   | 481   | 488   | 508   | 483   | 569   | 568   | 655   | 776   | 665   | 685   | 669   | 635   | 542   | 686   | 966   | 14,652                                                   | 7.36 |
| 7     | 12    | 15    | 18    | 23    | 18    | 26    | 34    | 22    | 24    | 38    | 32    | 18    | 19    | 14    | 21    | 704                                                      | .35  |
| 21    | 13    | 20    | 14    | 13    | 21    | 24    | 11    | 13    | 18    | 22    | 18    | 15    | 11    | 20    | 20    | 423                                                      | .21  |
| 2     | 2     | ....  | 4     | 3     | 2     | 4     | 1     | 4     | 3     | 2     | 3     | 2     | 1     | 1     | 7     | 31                                                       | .02  |
| ....  | 5     | 13    | 11    | 17    | 18    | 6     | 10    | 27    | 20    | 8     | 1     | 1     | 4     | 5     | 2     | 467                                                      | .23  |
| 1     | 2     | 1     | ....  | 2     | ....  | 2     | ....  | ....  | 1     | ....  | ....  | ....  | ....  | ....  | 2     | 129                                                      | .07  |
| 1     | 1     | 8     | 4     | 5     | 9     | 5     | 5     | 6     | 2     | ....  | ....  | ....  | ....  | ....  | 4     | 65                                                       | .03  |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | 1     | ....                                                     | .... |
| 51    | 59    | 68    | 61    | 75    | 73    | 57    | 67    | 64    | 62    | 85    | 67    | 81    | 93    | 79    | 59    | 1,508                                                    | .79  |
| 308   | 421   | 369   | 507   | 470   | 613   | 572   | 655   | 650   | 614   | 597   | 659   | 539   | 579   | 666   | 773   | 12,879                                                   | 6.47 |
| 115   | 135   | 164   | 131   | 124   | 127   | 136   | 182   | 118   | 117   | 158   | 123   | 114   | 119   | 140   | 104   | 4,488                                                    | 2.25 |
| 14    | 16    | 13    | 14    | 12    | 18    | 22    | 24    | 26    | 19    | 26    | 15    | 22    | 36    | 24    | 50    | 433                                                      | .22  |
| 10    | 11    | 12    | 10    | 8     | 15    | 15    | 20    | 74    | 46    | 41    | 85    | 76    | 87    | 32    | 5     | 642                                                      | .32  |
| ....  | 1     | 1     | 1     | 1     | 1     | ....  | ....  | 1     | 1     | 2     | ....  | 2     | 1     | 1     | 2     | 12                                                       | .01  |
| 5     | 16    | 17    | 19    | 27    | 28    | 31    | 28    | 40    | 31    | 38    | 45    | 42    | 41    | 46    | 45    | 385                                                      | .19  |
| 1     | ....  | 2     | 2     | 2     | 4     | 2     | 3     | 4     | 2     | 4     | 2     | 5     | 10    | 4     | 3     | 41                                                       | .02  |
| 56    | 55    | 67    | 47    | 52    | 48    | 48    | 58    | 52    | 57    | 43    | 65    | 16    | 50    | 46    | 45    | 1,865                                                    | .94  |
| ....  | 1     | 1     | 1     | ....  | ....  | ....  | ....  | ....  | 1     | 3     | 1     | ....  | 1     | 1     | ....  | 24                                                       | .01  |
| 35    | 59    | 66    | 60    | 63    | 63    | 68    | 62    | 74    | 31    | 23    | 23    | 12    | 11    | 19    | 23    | 1,170                                                    | .59  |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | 1     | ....  | 1     | 54    | 77    | 104   | 161   | 217   | 238   | 237                                                      | .12  |
| 17    | 13    | 15    | 22    | 30    | 20    | 18    | 21    | 16    | 17    | 24    | 29    | 25    | 45    | 28    | 31    | 506                                                      | .25  |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....                                                     | .... |
| 143   | 140   | 130   | 192   | 176   | 213   | 220   | 230   | 258   | 266   | 314   | 369   | 379   | 457   | 463   | 390   | 3,826                                                    | 1.92 |
| 25    | 21    | 39    | 21    | 34    | 17    | 18    | 41    | 44    | 47    | 34    | 27    | 8     | 12    | 14    | 9     | 963                                                      | .48  |
| 1     | ....  | 1     | 1     | 5     | 2     | 2     | 4     | 4     | 5     | 6     | 3     | 4     | 2     | 7     | 4     | 91                                                       | .05  |
| 20    | 25    | 20    | 11    | 23    | 39    | 14    | 22    | 27    | 31    | 21    | 22    | 23    | 22    | 31    | 16    | 498                                                      | .25  |
| 1     | 1     | 1     | 2     | 1     | ....  | 3     | ....  | 1     | ....  | 1     | ....  | 2     | 1     | 2     | 3     | 18                                                       | .01  |
| 4     | 8     | 7     | 4     | 1     | 2     | 8     | 5     | 3     | 10    | 15    | 10    | 7     | 12    | 13    | 10    | 116                                                      | .07  |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | 1     | ....  | ....  | 2     | ....  | ....  | ....  | ....  | ....  | 8                                                        | .00  |
| 4     | 3     | 8     | 2     | 2     | 2     | 1     | 1     | 5     | 7     | 10    | 22    | 11    | 17    | 12    | 18    | 78                                                       | .04  |
| 2     | 1     | 1     | 3     | 4     | 2     | 6     | 7     | 6     | 11    | 14    | 15    | 19    | 7     | 11    | 10    | 187                                                      | .09  |
| 8     | 8     | 5     | 3     | 4     | 4     | 8     | 6     | 9     | 14    | 17    | 16    | 8     | 12    | 8     | 5     | 141                                                      | .07  |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | 11    | ....                                                     | .... |

TABLE X.—*Bertillon*.—Continued.

| CAUSES OF DEATH.                                        | 1853. | 1854. | 1855. | 1856. | 1857. | 1858. | 1859. |
|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| <b>VII.</b>                                             |       |       |       |       |       |       |       |
| THE PUERPERAL STATE.                                    |       |       |       |       |       |       |       |
| Accidents of Pregnancy.....                             | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Other Accidents of Labor.....                           | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Septicæmia, Puerperal.....                              | 7     | 2     | 6     | 10    | 8     | 7     | 11    |
| Albuminuria and Puerperal Eclampsia.....                | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Phlegmasia Alba Dolens, Puerperal.....                  | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Other Puerperal Accidents—Sudden Death.....             | 5     | 7     | 9     | 14    | 13    | 24    | 14    |
| <b>VIII.</b>                                            |       |       |       |       |       |       |       |
| DISEASES OF THE SKIN AND CELLULAR TISSUE.               |       |       |       |       |       |       |       |
| Gangrene.....                                           | 5     | 2     | 3     | 4     | 8     | 8     | 3     |
| Furuncle (Carbuncle).....                               | ..... | ..... | ..... | 1     | ..... | 1     | 1     |
| Abscess, Warm.....                                      | 2     | ..... | 7     | 4     | 3     | 2     | 1     |
| Other Diseases of the Skin and its Adnexa.....          | ..... | 3     | 2     | 3     | 6     | 1     | 1     |
| <b>IX.</b>                                              |       |       |       |       |       |       |       |
| DISEASES OF THE ORGANS OF LOCOMOTION.                   |       |       |       |       |       |       |       |
| Affections of the Bones (non-Tuberculous).....          | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Arthritis, and Other Affections of the Joints.....      | 3     | 1     | 2     | 7     | 6     | 6     | 9     |
| <b>X.</b>                                               |       |       |       |       |       |       |       |
| MALFORMATIONS.                                          |       |       |       |       |       |       |       |
| Malformations, Congenital (still-births excepted).....  | 3     | 7     | 11    | 5     | 12    | 14    | 14    |
| <b>XI.</b>                                              |       |       |       |       |       |       |       |
| EARLY INFANCY.                                          |       |       |       |       |       |       |       |
| Congenital Icterus, Debility and Sclerema.....          | 2     | 13    | 34    | 17    | 17    | 33    | 25    |
| Other Diseases of Early Infancy.....                    | 8     | 21    | 29    | 16    | 35    | 29    | 31    |
| Lack of Care.....                                       | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| <b>XII.</b>                                             |       |       |       |       |       |       |       |
| OLD AGE                                                 |       |       |       |       |       |       |       |
| Senile Debility.....                                    | 58    | 67    | 84    | 76    | 119   | 114   | 117   |
| <b>XIII.</b>                                            |       |       |       |       |       |       |       |
| AFFECTIONS PRODUCED BY EXTERNAL CAUSES.                 |       |       |       |       |       |       |       |
| Suicide by Poison.....                                  | ..... | ..... | ..... | ..... | 1     | 2     | 2     |
| Suicide by Asphyxia.....                                | ..... | ..... | 1     | ..... | ..... | ..... | ..... |
| Suicide by Hanging or Strangulation.....                | ..... | ..... | 1     | 3     | 3     | 6     | 3     |
| Suicide by Submersion.....                              | ..... | ..... | ..... | ..... | ..... | 3     | 1     |
| Suicide by Firearms.....                                | ..... | ..... | ..... | ..... | ..... | ..... | 1     |
| Suicide by Cutting Instruments.....                     | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Suicide by Jumping from High Places.....                | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Other Suicides.....                                     | 3     | 3     | 6     | 1     | 4     | 2     | 2     |
| Fractures.....                                          | 1     | 1     | ..... | 4     | ..... | ..... | ..... |
| Other Accidental Traumatism.....                        | 31    | 23    | 19    | 16    | 40    | 38    | 37    |
| Burns and Scalds.....                                   | 9     | 9     | 14    | 12    | 7     | 6     | 13    |
| Insolation.....                                         | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Freezing.....                                           | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Electrical Disturbances.....                            | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Accidental Submersion.....                              | 13    | 15    | 18    | 13    | 20    | 21    | 24    |
| Absorption of Deleterious Gases (Suicide excepted)..... | 2     | 2     | ..... | 7     | 3     | ..... | 1     |
| Other Acute Poisonings.....                             | 1     | 3     | 6     | 4     | 3     | 5     | 4     |
| Other External Violence (Homicide).....                 | 3     | ..... | 9     | 1     | 1     | 1     | 1     |
| <b>XIV.</b>                                             |       |       |       |       |       |       |       |
| ILL-DEFINED DISEASES.                                   |       |       |       |       |       |       |       |
| Dropsy.....                                             | 45    | 34    | 32    | 50    | 48    | 44    | 41    |
| Unspecified or Ill-defined Causes of Death.....         | 115   | 151   | 188   | 306   | 288   | 310   | 263   |

TABLE X.—*Bertillon*.—Continued.

| 1860. | 1861. | 1862. | 1863. | 1864. | 1865. | 1866. | 1867. | 1868. | 1869. | 1870. | 1871. | 1872. | 1873. | 1874. | 1875. | 1876. | 1877. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3     | ..... | ..... | ..... |
| 9     | 7     | 4     | 14    | 14    | 13    | 7     | 8     | 12    | 10    | 16    | 18    | 9     | 17    | 16    | 18    | 18    | 17    |
| ..... | ..... | ..... | ..... | ..... | ..... | 2     | 7     | 4     | 4     | 6     | 7     | 4     | 5     | 13    | 13    | 6     | 5     |
| 13    | 19    | 23    | 21    | 23    | 18    | 22    | 19    | 16    | 23    | 22    | 27    | 32    | 24    | 28    | 22    | 24    | 24    |
| 10    | 11    | 7     | 8     | 6     | 12    | 6     | 7     | 6     | 4     | 7     | 10    | 12    | 12    | 5     | 12    | 11    | 8     |
| 7     | 1     | ..... | ..... | ..... | 1     | 2     | ..... | 1     | 2     | 1     | 2     | ..... | 1     | ..... | 1     | 1     | 3     |
| 4     | 6     | 5     | 2     | 3     | 1     | 5     | 7     | 4     | 4     | 2     | 5     | 2     | 7     | 6     | 7     | 5     | 5     |
| 5     | 15    | 8     | 9     | 7     | 5     | 5     | 6     | 12    | 11    | 15    | 5     | 11    | 18    | 15    | 16    | 27    | 15    |
| 15    | 13    | 11    | 13    | 8     | 10    | 12    | 17    | 16    | 15    | 14    | 15    | 17    | 15    | 17    | 15    | 11    | 26    |
| 42    | 45    | 35    | 47    | 46    | 62    | 54    | 60    | 47    | 34    | 57    | 53    | 100   | 169   | 154   | 135   | 75    | 67    |
| 81    | 40    | 41    | 34    | 28    | 31    | 23    | 30    | 23    | 24    | 34    | 20    | 31    | 50    | 42    | 20    | 22    | 27    |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 116   | 132   | 143   | 161   | 193   | 152   | 178   | 188   | 206   | 217   | 204   | 232   | 233   | 254   | 223   | 216   | 211   | 213   |
| 1     | 2     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 3     | 1     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 3     | 4     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 3     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 5     | 4     | 8     | 13    | 6     | 12    | 11    | 15    | 18    | 15    | 27    | 19    | 18    | 8     | 18    | 26    | 18    | 22    |
| 55    | 31    | 50    | 74    | 66    | 52    | 69    | 61    | 56    | 62    | 63    | 66    | 81    | 86    | 55    | 79    | 69    | 76    |
| 24    | 21    | 14    | 10    | 12    | 16    | 18    | 16    | 16    | 15    | 12    | 12    | 12    | 14    | 23    | 17    | 12    | 18    |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 5     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 32    | 29    | 29    | 21    | 26    | 20    | 27    | 23    | 20    | 24    | 30    | 24    | 29    | 36    | 39    | 35    | 37    | 30    |
| 1     | 3     | 3     | 1     | 1     | 1     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4     | 6     | 5     | 9     | 5     |
| 7     | 9     | 2     | 1     | 3     | 2     | 6     | 2     | ..... | 4     | 2     | 4     | 1     | 5     | 5     | 6     | 4     | 8     |
| 4     | 3     | 1     | 5     | 2     | ..... | 1     | 5     | ..... | 2     | 5     | ..... | 2     | 3     | 4     | 3     | 4     | 3     |
| 56    | 48    | 46    | 52    | 45    | 61    | 49    | 49    | 49    | 53    | 61    | 56    | 55    | 60    | 39    | 56    | 66    | 63    |
| 225   | 220   | 209   | 237   | 243   | 247   | 204   | 225   | 336   | 351   | 196   | 292   | 463   | 287   | 209   | 263   | 245   | 248   |

TABLE X.—*Bertillon*.—Continued.

| CAUSES OF DEATH.                                        | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. |
|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| VII.                                                    |       |       |       |       |       |       |       |
| THE PUERPERAL STATE.                                    |       |       |       |       |       |       |       |
| Accidents of Pregnancy.....                             | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Other Accidents of Labor.....                           | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Septicæmia, Puerperal.....                              | 17    | 9     | 15    | 22    | 28    | 16    | 12    |
| Albuminuria and Puerperal Eclampsia.....                | 11    | 8     | 3     | 6     | 3     | 1     | 8     |
| Phlegmasia Alba Dolens, Puerperal.....                  | ..... | 1     | ..... | ..... | ..... | ..... | ..... |
| Other Puerperal Accidents—Sudden Death.....             | 15    | 27    | 33    | 32    | 19    | 43    | 31    |
| VIII.                                                   |       |       |       |       |       |       |       |
| DISEASES OF THE SKIN AND CELLULAR TISSUE.               |       |       |       |       |       |       |       |
| Gangrene.....                                           | 10    | 14    | 11    | 14    | 6     | 10    | 15    |
| Furuncle (Carbuncle).....                               | ..... | 1     | ..... | 2     | 1     | 3     | 4     |
| Abscess, Warm.....                                      | 13    | 14    | 5     | 17    | 14    | 18    | 18    |
| Other Diseases of the Skin and its Adnexa.....          | 7     | 3     | 2     | 6     | 3     | 1     | 9     |
| IX.                                                     |       |       |       |       |       |       |       |
| DISEASES OF THE ORGANS OF LOCOMOTION.                   |       |       |       |       |       |       |       |
| Affections of the Bones (non-Tuberculous).....          | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Arthritis, and other Affections of the Joints.....      | 10    | 20    | 15    | 11    | 25    | 26    | 32    |
| X.                                                      |       |       |       |       |       |       |       |
| MALFORMATIONS.                                          |       |       |       |       |       |       |       |
| Malformations, Congenital (still-births excepted).....  | 32    | 19    | 13    | 26    | 21    | 19    | 22    |
| XI.                                                     |       |       |       |       |       |       |       |
| EARLY INFANCY.                                          |       |       |       |       |       |       |       |
| Congenital Icterus, Debility and Sclerema.....          | 72    | 69    | 93    | 92    | 101   | 137   | 128   |
| Other Diseases of Early Infancy.....                    | 16    | 22    | 28    | 28    | 33    | 47    | 26    |
| Lack of Care.....                                       | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| XII.                                                    |       |       |       |       |       |       |       |
| OLD AGE.                                                |       |       |       |       |       |       |       |
| Senile Debility.....                                    | 222   | 220   | 273   | 247   | 283   | 275   | 293   |
| XIII.                                                   |       |       |       |       |       |       |       |
| AFFECTIONS PRODUCED BY EXTERNAL CAUSES.                 |       |       |       |       |       |       |       |
| Suicide by Poison.....                                  | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Suicide by Asphyxia.....                                | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Suicide by Hanging or Strangulation.....                | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Suicide by Submersion.....                              | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Suicide by Firearms.....                                | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Suicide by Cutting Instruments.....                     | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Suicide by Jumping from High Places.....                | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Other Suicides.....                                     | 21    | 13    | 10    | 23    | 31    | 25    | 22    |
| Fractures.....                                          | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Other Accidental Traumatisms.....                       | 74    | 73    | 87    | 82    | 107   | 94    | 118   |
| Burns and Scalds.....                                   | 11    | 13    | 21    | 16    | 17    | 18    | 20    |
| Insolation.....                                         | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Freezing.....                                           | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Electrical Disturbances.....                            | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Accidental Submersion.....                              | 44    | 22    | 33    | 29    | 40    | 27    | 41    |
| Absorption of Deleterious Gases (Suicide excepted)..... | ..... | ..... | ..... | 19    | 8     | 12    | 11    |
| Other Acute Poisonings.....                             | 6     | 5     | 5     | 9     | 6     | 6     | 7     |
| Other External Violence (Homicide).....                 | 3     | 1     | 1     | 4     | 6     | 3     | 2     |
| XIV.                                                    |       |       |       |       |       |       |       |
| ILL-DEFINED DISEASES.                                   |       |       |       |       |       |       |       |
| Dropsy.....                                             | 38    | 50    | 37    | 47    | 50    | 48    | 42    |
| Unspecified or Ill-defined Causes of Death.....         | 259   | 302   | 279   | 402   | 316   | 208   | 61    |

TABLE X.—*Bertillon*.—Concluded.

| 1885. 1886. 1887. 1888. 1889. 1890. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | TOTAL AND PER-<br>CENTAGE<br>FOR 45 YEARS,<br>1853-1897. |      |
|-------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------------------------------------------|------|
| 2                                                                                               | 2   | 2   | 2   | 1   | ... | 2   | 6   | 4   | 8   | 7   | 13  | 12  | 13  | 7   | 21  | 64                                                       | .03  |
| ...                                                                                             | ... | ... | ... | ... | 3   | 1   | 4   | ... | 6   | 5   | 5   | 3   | 8   | 6   | 2   | 27                                                       | .01  |
| 19                                                                                              | 10  | 25  | 18  | 17  | 19  | 12  | 30  | 21  | 32  | 24  | 16  | 19  | 34  | 26  | 40  | 659                                                      | .33  |
| 7                                                                                               | 6   | 7   | 6   | 6   | 4   | 5   | 8   | 4   | 13  | 12  | 13  | 20  | 11  | 13  | 23  | 227                                                      | .12  |
| ...                                                                                             | ... | ... | ... | 1   | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... | 1   | 5                                                        | .00  |
| 19                                                                                              | 23  | 20  | 25  | 19  | 19  | 15  | 29  | 27  | 13  | 7   | 7   | 6   | 2   | 3   | 3   | 915                                                      | .46  |
| ...                                                                                             | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...                                                      | ...  |
| 19                                                                                              | 6   | 15  | 19  | 26  | 24  | 16  | 21  | 17  | 13  | ... | ... | 3   | ... | ... | 16  | 446                                                      | .22  |
| 1                                                                                               | 2   | 3   | ... | ... | 2   | 2   | 4   | 3   | 3   | 3   | 2   | 1   | 2   | 1   | 4   | 56                                                       | .03  |
| 21                                                                                              | 13  | 15  | 19  | 17  | 13  | 6   | 5   | ... | 1   | 7   | 24  | 13  | 29  | 6   | 5   | 436                                                      | .22  |
| 2                                                                                               | 9   | 5   | 7   | 3   | 9   | 7   | 5   | 5   | 26  | 10  | 12  | 3   | 1   | 5   | ... | 230                                                      | .12  |
| ...                                                                                             | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...                                                      | ...  |
| 34                                                                                              | 26  | 23  | 15  | 18  | 25  | 20  | 17  | 14  | 19  | 23  | 22  | 18  | 12  | 18  | 7   | 652                                                      | .33  |
| ...                                                                                             | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...                                                      | ...  |
| 15                                                                                              | 15  | 18  | 20  | 19  | 25  | 28  | 16  | 21  | 23  | 32  | 32  | 30  | 35  | 46  | 47  | 775                                                      | .39  |
| ...                                                                                             | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...                                                      | ...  |
| 132                                                                                             | 157 | 211 | 230 | 195 | 225 | 251 | 245 | 224 | 373 | 344 | 390 | 372 | 257 | 294 | 316 | 5,464                                                    | 2.74 |
| 35                                                                                              | 37  | 34  | 51  | 55  | 41  | 75  | 37  | 53  | 66  | 73  | 28  | 40  | 26  | 21  | 16  | 1,545                                                    | .78  |
| ...                                                                                             | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ...                                                      | ...  |
| ...                                                                                             | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...                                                      | ...  |
| 267                                                                                             | 276 | 278 | 290 | 227 | 198 | 185 | 256 | 183 | 187 | 282 | 293 | 253 | 205 | 228 | 268 | 9,125                                                    | 4.58 |
| ...                                                                                             | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...                                                      | ...  |
| ...                                                                                             | ... | ... | 3   | 2   | 4   | 9   | 3   | 5   | 8   | 6   | 6   | 9   | 14  | 5   | 13  | 63                                                       | .03  |
| ...                                                                                             | ... | ... | ... | 2   | 1   | 2   | 2   | 1   | 6   | 2   | 10  | 4   | 4   | 6   | 1   | 31                                                       | .02  |
| ...                                                                                             | ... | ... | 7   | 8   | 1   | 5   | 1   | 4   | 15  | 3   | 8   | 6   | 9   | 10  | 13  | 78                                                       | .04  |
| ...                                                                                             | ... | ... | ... | 3   | 3   | 5   | 2   | 2   | 8   | 5   | ... | 6   | 8   | 6   | 9   | 42                                                       | .02  |
| ...                                                                                             | ... | ... | ... | 4   | ... | 13  | 2   | 4   | 2   | 11  | 12  | 11  | 8   | 7   | 10  | 64                                                       | .03  |
| ...                                                                                             | ... | ... | 2   | ... | 2   | 3   | 1   | 1   | ... | 1   | 2   | 1   | 2   | 6   | 8   | 23                                                       | .01  |
| ...                                                                                             | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...                                                      | .00  |
| 20                                                                                              | 17  | 16  | 7   | 5   | 8   | 3   | 8   | 1   | 5   | ... | ... | ... | ... | ... | ... | 519                                                      | .26  |
| ...                                                                                             | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 6                                                        | .00  |
| 98                                                                                              | 97  | 122 | 95  | 126 | 129 | 124 | 187 | 160 | 118 | 163 | 141 | 146 | 156 | 158 | 185 | 3,699                                                    | 1.86 |
| 19                                                                                              | 23  | 17  | 27  | 20  | 20  | 18  | 21  | 26  | 28  | 28  | 25  | 41  | 21  | 28  | 33  | 781                                                      | .39  |
| ...                                                                                             | ... | 6   | 1   | ... | 6   | 5   | 17  | ... | 8   | 4   | 47  | 1   | 23  | 2   | 13  | 100                                                      | .05  |
| ...                                                                                             | ... | 1   | 1   | 2   | 1   | ... | ... | 2   | 1   | 2   | 2   | 3   | 4   | 3   | ... | 15                                                       | .01  |
| ...                                                                                             | ... | ... | ... | 2   | 1   | ... | ... | 1   | ... | 2   | 6   | 1   | 2   | 2   | 2   | 14                                                       | .01  |
| 42                                                                                              | 58  | 39  | 46  | 52  | 71  | 52  | 48  | 47  | 52  | 61  | 39  | 40  | 60  | 45  | 64  | 1,521                                                    | .76  |
| 10                                                                                              | 10  | 14  | 8   | 9   | 12  | 17  | 26  | 11  | 21  | 22  | 21  | 22  | 19  | 31  | 53  | 313                                                      | .16  |
| 9                                                                                               | 6   | 7   | 12  | 5   | 10  | 15  | 9   | 13  | 6   | 11  | 12  | 8   | 10  | 6   | 14  | 264                                                      | .13  |
| 3                                                                                               | 2   | 2   | 5   | 3   | 2   | 1   | 4   | 3   | 9   | 6   | 2   | 12  | 13  | 15  | 10  | 137                                                      | .07  |
| ...                                                                                             | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...                                                      | ...  |
| 44                                                                                              | 49  | 39  | 48  | 51  | 48  | 38  | 42  | 41  | 7   | ... | ... | ... | ... | ... | ... | 1,980                                                    | 1.00 |
| 116                                                                                             | 90  | 54  | 74  | 88  | 88  | 69  | 62  | 99  | 57  | 60  | 52  | 33  | 33  | 26  | 33  | 9,090                                                    | 4.56 |



TABLE XI.—OCCUPATIONS AND AGES OF DECEDENTS.

*Showing the Number and Occupation of Decedents for the year 1900, and for a period of Forty-eight Years and Seven Months, 1852 to 1900, inclusive.*

[AGES UNDER TWENTY EXCLUDED.]

| OCCUPATIONS.                          | STATE OF RHODE ISLAND. |                 |              |                                                                     |                 |              |
|---------------------------------------|------------------------|-----------------|--------------|---------------------------------------------------------------------|-----------------|--------------|
|                                       | 1900.                  |                 |              | FORTY-EIGHT YEARS AND SEVEN MONTHS, June 1, 1852, to Dec. 31, 1900. |                 |              |
|                                       | Total Mortality.       | Aggregate Ages. | Average Age. | Total Mortality.                                                    | Aggregate Ages. | Average Age. |
| I.                                    |                        |                 |              |                                                                     |                 |              |
| TILLERS OF THE SOIL.                  |                        |                 |              |                                                                     |                 |              |
| Farmers.....                          | 151                    | 10,331          | 68.41        | 7,189                                                               | 483,215         | 67.21        |
| Florists.....                         | 4                      | 208             | 52.00        | 65                                                                  | 5,583           | 55.12        |
| Gardeners.....                        | 32                     | 1,954           | 61.06        | 338                                                                 | 20,010          | 59.20        |
| Total.....                            | 187                    | 12,493          | 66.81        | 7,592                                                               | 506,808         | 66.75        |
| II.                                   |                        |                 |              |                                                                     |                 |              |
| PROFESSIONAL AND PERSONAL.            |                        |                 |              |                                                                     |                 |              |
| Aerobats.....                         | 1                      | 24              | 24.00        | 1                                                                   | 24              | 24.00        |
| Actors.....                           |                        |                 |              | 15                                                                  | 522             | 34.80        |
| Aeronauts.....                        |                        |                 |              | 1                                                                   | 23              | 23.00        |
| Architects.....                       |                        |                 |              | 17                                                                  | 955             | 56.17        |
| Artists.....                          | 2                      | 107             | 53.50        | 41                                                                  | 2,129           | 51.92        |
| Assayers and Analytical Chemists..... |                        |                 |              | 8                                                                   | 506             | 63.25        |
| Athletes.....                         |                        |                 |              | 1                                                                   | 25              | 25.00        |
| Authors.....                          | 1                      | 74              | 74.00        | 8                                                                   | 551             | 68.87        |
| Ball-players.....                     |                        |                 |              | 2                                                                   | 65              | 32.50        |
| Chiropodists.....                     |                        |                 |              | 1                                                                   | 58              | 58.00        |
| Civil Engineers.....                  | 1                      | 61              | 61.00        | 54                                                                  | 2,673           | 49.50        |
| Clergymen.....                        | 12                     | 853             | 71.08        | 280                                                                 | 17,938          | 64.06        |
| Couriers.....                         |                        |                 |              | 2                                                                   | 113             | 56.50        |
| Dancing-masters.....                  |                        |                 |              | 3                                                                   | 173             | 57.67        |
| Dentists.....                         | 2                      | 107             | 53.50        | 50                                                                  | 2,664           | 53.28        |
| Designers.....                        | 1                      | 72              | 72.00        | 24                                                                  | 1,220           | 50.83        |

TABLE XI.—OCCUPATIONS AND AGES.—Continued.

| OCCUPATIONS.                                | STATE OF RHODE ISLAND. |                    |                 |                                                                           |                   |                 |
|---------------------------------------------|------------------------|--------------------|-----------------|---------------------------------------------------------------------------|-------------------|-----------------|
|                                             | 1900.                  |                    |                 | FORTY-EIGHT YEARS AND<br>SEVEN MONTHS,<br>June 1, 1852, to Dec. 31, 1900. |                   |                 |
|                                             | Total<br>Mortality.    | Aggregate<br>Ages. | Average<br>Age. | Total<br>Mortality.                                                       | Aggregate<br>Age. | Average<br>Age. |
| Draughtsmen.....                            |                        |                    |                 | 15                                                                        | 505               | 33.67           |
| Electricians.....                           | 4                      | 159                | 39.75           | 18                                                                        | 689               | 38.28           |
| Inspectors.....                             | 3                      | 156                | 52.00           | 20                                                                        | 1,051             | 52.55           |
| Inventors.....                              |                        |                    |                 | 16                                                                        | 1,054             | 65.87           |
| Journalists (Editors and<br>Reporters)..... | 4                      | 211                | 52.75           | 52                                                                        | 2,468             | 47.46           |
| Judges and Justices.....                    | 1                      | 46                 | 46.00           | 18                                                                        | 1,156             | 64.22           |
| Lawyers.....                                | 11                     | 705                | 64.09           | 200                                                                       | 11,439            | 57.19           |
| Lecturers.....                              |                        |                    |                 | 2                                                                         | 108               | 54.00           |
| Musicians.....                              | 6                      | 313                | 52.17           | 85                                                                        | 4,035             | 47.47           |
| Nurses.....                                 | 2                      | 135                | 67.50           | 18                                                                        | 994               | 55.22           |
| Photographers and Litho-<br>graphers.....   | 2                      | 115                | 57.50           | 30                                                                        | 1,428             | 47.60           |
| Physicians.....                             | 9                      | 464                | 51.55           | 348                                                                       | 20,745            | 59.61           |
| Postmasters.....                            |                        |                    |                 | 2                                                                         | 68                | 34.00           |
| Professors and Teachers..                   | 3                      | 160                | 53.33           | 151                                                                       | 7,560             | 50.06           |
| Public Officers.....                        | 3                      | 173                | 57.67           | 95                                                                        | 5,636             | 59.33           |
| Sculptors.....                              | 1                      | 41                 | 41.00           | 1                                                                         | 41                | 41.00           |
| Sheriffs and Policemen...                   | 3                      | 157                | 52.33           | 141                                                                       | 7,712             | 54.69           |
| Students.....                               | 1                      | 20                 | 20.00           | 88                                                                        | 2,008             | 22.82           |
| Submarine Divers.....                       |                        |                    |                 | 1                                                                         | 73                | 73.00           |
| Telephone and Telegraph<br>Operators.....   |                        |                    |                 | 24                                                                        | 731               | 30.46           |
| Treasurers.....                             | 2                      | 81                 | 40.50           | 7                                                                         | 338               | 48.29           |
| Veterinary Surgeons.....                    |                        |                    |                 | 9                                                                         | 470               | 52.22           |
| Weighers and Gaugers...                     | 1                      | 71                 | 71.00           | 9                                                                         | 576               | 64.00           |
| Total.....                                  | 76                     | 4,305              | 56.64           | 1,858                                                                     | 100,524           | 54.10           |
| III.                                        |                        |                    |                 |                                                                           |                   |                 |
| OPTIONAL ACTIVITY.                          |                        |                    |                 |                                                                           |                   |                 |
| Agents and Canvassers...                    | 4                      | 190                | 47.50           | 233                                                                       | 12,048            | 51.70           |
| Insurance.....                              | 7                      | 384                | 54.86           | 28                                                                        | 1,535             | 54.82           |
| Real Estate.....                            | 2                      | 155                | 77.50           | 20                                                                        | 1,280             | 64.00           |
| Auctioneers.....                            |                        |                    |                 | 6                                                                         | 274               | 45.67           |
| Bankers and Brokers.....                    | 10                     | 637                | 63.70           | 167                                                                       | 10,024            | 60.00           |
| Bank Officers.....                          | 1                      | 70                 | 70.00           | 69                                                                        | 4,441             | 64.36           |
| Bartenders.....                             | 4                      | 130                | 32.50           | 54                                                                        | 1,932             | 35.78           |
| Booksellers.....                            |                        |                    |                 | 3                                                                         | 213               | 71.00           |

TABLE XI.—OCCUPATIONS AND AGES.—Continued.

| OCCUPATIONS.                              | STATE OF RHODE ISLAND. |                    |                 |                                                                           |                   |                 |
|-------------------------------------------|------------------------|--------------------|-----------------|---------------------------------------------------------------------------|-------------------|-----------------|
|                                           | 1900.                  |                    |                 | FORTY-EIGHT YEARS AND<br>SEVEN MONTHS,<br>June 1, 1852, to Dec. 31, 1900. |                   |                 |
|                                           | Total<br>Mortality.    | Aggregate<br>Ages. | Average<br>Age. | Total<br>Mortality.                                                       | Aggregate<br>Age. | Average<br>Age. |
| Bottlers.....                             |                        |                    |                 | 9                                                                         | 314               | 34.89           |
| Butchers and Marketmen.                   | 11                     | 506                | 46.00           | 321                                                                       | 16,539            | 51.52           |
| Carriage Dealers.....                     |                        |                    |                 | 2                                                                         | 113               | 56.50           |
| Coal and Wood.....                        | 1                      | 76                 | 76.00           | 16                                                                        | 965               | 51.52           |
| Dry Goods.....                            |                        |                    |                 | 4                                                                         | 207               | 51.75           |
| Fish and Oyster.....                      | 4                      | 235                | 58.75           | 28                                                                        | 1,687             | 60.25           |
| Furniture.....                            | 1                      | 68                 | 68.00           | 4                                                                         | 243               | 60.75           |
| Grain.....                                |                        |                    |                 | 5                                                                         | 299               | 59.80           |
| Hardware.....                             | 1                      | 31                 | 31.00           | 6                                                                         | 347               | 57.83           |
| Ice.....                                  | 1                      | 56                 | 56.00           | 5                                                                         | 251               | 50.20           |
| Junk.....                                 | 2                      | 112                | 56.00           | 15                                                                        | 826               | 55.07           |
| Leather.....                              |                        |                    |                 | 2                                                                         | 81                | 40.50           |
| Liquor.....                               | 6                      | 375                | 62.50           | 131                                                                       | 6,085             | 46.45           |
| Lumber.....                               | 1                      | 65                 | 65.00           | 18                                                                        | 1,004             | 55.55           |
| News.....                                 | 1                      | 28                 | 28.00           | 6                                                                         | 311               | 51.67           |
| Provision.....                            | 1                      | 67                 | 67.00           | 22                                                                        | 1,245             | 56.59           |
| Shoe.....                                 |                        |                    |                 | 14                                                                        | 757               | 54.07           |
| Soap.....                                 |                        |                    |                 | 1                                                                         | 65                | 65.00           |
| Stove.....                                |                        |                    |                 | 2                                                                         | 152               | 76.00           |
| Wool Waste.....                           |                        |                    |                 | 1                                                                         | 56                | 56.00           |
| Clothiers.....                            | 1                      | 42                 | 42.00           | 16                                                                        | 909               | 56.81           |
| Collectors.....                           | 4                      | 162                | 40.50           | 4                                                                         | 162               | 40.50           |
| Commercial Travelers....                  | 2                      | 102                | 51.00           | 27                                                                        | 1,163             | 43.07           |
| Contractors and Builders.                 | 10                     | 636                | 63.60           | 132                                                                       | 7,913             | 59.94           |
| Druggists and Apothecar-<br>ies.....      | 7                      | 468                | 66.86           | 122                                                                       | 8,756             | 71.77           |
| Fruiterers.....                           | 1                      | 70                 | 70.00           | 8                                                                         | 376               | 47.00           |
| Grocers.....                              | 20                     | 973                | 48.65           | 481                                                                       | 26,047            | 54.15           |
| Hotel and Innkeepers....                  | 4                      | 253                | 63.25           | 183                                                                       | 10,108            | 55.23           |
| Saloon and Restaurant.                    | 6                      | 250                | 41.67           | 207                                                                       | 9,545             | 46.11           |
| Stable.....                               | 1                      | 28                 | 28.00           | 77                                                                        | 4,191             | 54.53           |
| Store.....                                | 7                      | 368                | 52.57           | 58                                                                        | 3,069             | 52.91           |
| Mail-carriers.....                        |                        |                    |                 | 12                                                                        | 530               | 44.17           |
| Manufacturers.....                        | 25                     | 1,576              | 63.04           | 688                                                                       | 42,014            | 61.07           |
| Merchants.....                            | 40                     | 2,219              | 55.47           | 1,404                                                                     | 82,113            | 58.48           |
| Opticians.....                            |                        |                    |                 | 6                                                                         | 338               | 56.33           |
| Organ and Piano Tuners..                  |                        |                    |                 | 6                                                                         | 402               | 67.00           |
| Policy Brokers.....                       |                        |                    |                 | 1                                                                         | 24                | 24.00           |
| Pork and Meat Cutters and<br>Packers..... | 1                      | 55                 | 55.00           | 21                                                                        | 938               | 44.66           |
| Promoters.....                            |                        |                    |                 | 1                                                                         | 25                | 25.00           |

TABLE XI.—OCCUPATIONS AND AGES.—Continued.

| OCCUPATIONS.                          | STATE OF RHODE ISLAND. |                 |              |                                                                        |                 |              |
|---------------------------------------|------------------------|-----------------|--------------|------------------------------------------------------------------------|-----------------|--------------|
|                                       | 1900.                  |                 |              | FORTY-EIGHT YEARS AND SEVEN MONTHS,<br>June 1, 1852, to Dec. 31, 1900. |                 |              |
|                                       | Total Mortality.       | Aggregate Ages. | Average Age. | Total Mortality.                                                       | Aggregate Ages. | Average Age. |
| Railroad Officials .....              | 3                      | 169             | 56.33        | 6                                                                      | 379             | 63.17        |
| Ship Chandlers .....                  |                        |                 |              | 5                                                                      | 318             | 63.60        |
| Tobacconists .....                    |                        |                 |              | 15                                                                     | 874             | 58.26        |
| Traders.....                          |                        |                 |              | 283                                                                    | 14,259          | 50.39        |
| Undertakers.....                      | 6                      | 273             | 45.50        | 57                                                                     | 3,269           | 57.35        |
| Total.....                            | 196                    | 10,829          | 55.25        | 5,012                                                                  | 281,016         | 56.07        |
| IV.                                   |                        |                 |              |                                                                        |                 |              |
| OUTDOOR.— <i>Local.</i>               |                        |                 |              |                                                                        |                 |              |
| Boat-builders .....                   |                        |                 |              | 32                                                                     | 1,999           | 62.47        |
| Brick-makers .....                    |                        |                 |              | 8                                                                      | 352             | 44.00        |
| Brick and Stone Layers..              |                        |                 |              | 14                                                                     | 663             | 47.36        |
| Calkers.....                          | 1                      | 56              | 56.00        | 15                                                                     | 1,033           | 68.87        |
| Carpenters and Joiners...             | 101                    | 5,873           | 58.15        | 2,331                                                                  | 130,887         | 56.15        |
| Masons.....                           | 33                     | 2,036           | 61.69        | 975                                                                    | 54,660          | 56.06        |
| Millwrights.....                      |                        |                 |              | 37                                                                     | 2,464           | 66.59        |
| Pavers.....                           |                        |                 |              | 3                                                                      | 129             | 43.00        |
| Riggers.....                          | 2                      | 64              | 32.00        | 24                                                                     | 1,318           | 54.92        |
| Roofers.....                          |                        |                 |              | 8                                                                      | 415             | 55.33        |
| Ship Carpenters .....                 | 3                      | 187             | 62.33        | 85                                                                     | 5,868           | 69.03        |
| Slaters.....                          |                        |                 |              | 9                                                                      | 398             | 44.22        |
| Stone-cutters and Marble-workers..... | 14                     | 762             | 54.43        | 312                                                                    | 15,257          | 48.90        |
| Superintendents of Highways.....      |                        |                 |              | 1                                                                      | 79              | 79.00        |
| Tanners and Curriers.....             | 4                      | 280             | 70.00        | 61                                                                     | 3,896           | 63.87        |
| Wheelwrights.....                     | 2                      | 119             | 59.50        | 117                                                                    | 7,061           | 60.35        |
| Total.....                            | 160                    | 9,377           | 58.60        | 4,032                                                                  | 226,479         | 55.17        |
| V.                                    |                        |                 |              |                                                                        |                 |              |
| INDOOR.— <i>Active.</i>               |                        |                 |              |                                                                        |                 |              |
| Axe and Seythe-grinders.....          |                        |                 |              | 4                                                                      | 222             | 55.50        |
| Bakers.....                           | 6                      | 266             | 44.33        | 176                                                                    | 11,379          | 64.65        |

TABLE XI.—OCCUPATIONS AND AGES.—Continued.

| OCCUPATIONS.              | STATE OF RHODE ISLAND. |                    |                 |                                                                           |                    |                 |
|---------------------------|------------------------|--------------------|-----------------|---------------------------------------------------------------------------|--------------------|-----------------|
|                           | 1900.                  |                    |                 | FORTY-EIGHT YEARS AND<br>SEVEN MONTHS,<br>June 1, 1852, to Dec. 31, 1900. |                    |                 |
|                           | Total<br>Mortality.    | Aggregate<br>Ages. | Average<br>Age. | Total<br>Mortality.                                                       | Aggregate<br>Ages. | Average<br>Age. |
| Basket-makers. ....       |                        |                    |                 | 7                                                                         | 404                | 57.71           |
| Belt.....                 |                        |                    |                 | 13                                                                        | 760                | 58.46           |
| Bobbin.....               | 1                      | 60                 | 60.00           | 4                                                                         | 203                | 50.75           |
| Boiler.....               | 2                      | 72                 | 36.00           | 83                                                                        | 3,468              | 41.78           |
| Bolt.....                 |                        |                    |                 | 1                                                                         | 41                 | 41.00           |
| Broom and Brush.....      | 1                      | 70                 | 70.00           | 16                                                                        | 813                | 50.81           |
| Button.....               |                        |                    |                 | 1                                                                         | 37                 | 37.00           |
| Cabinet. ....             | 4                      | 272                | 68.00           | 144                                                                       | 8,419              | 58.46           |
| Card.....                 |                        |                    |                 | 4                                                                         | 201                | 50.25           |
| Carriage, and Trimmers.   | 3                      | 187                | 62.33           | 78                                                                        | 4,332              | 55.54           |
| Chair.....                |                        |                    |                 | 1                                                                         | 70                 | 70.00           |
| Comb.....                 |                        |                    |                 | 5                                                                         | 187                | 37.40           |
| Mattress.....             |                        |                    |                 | 1                                                                         | 38                 | 38.00           |
| Pattern.....              | 2                      | 137                | 68.50           | 85                                                                        | 5,015              | 59.00           |
| Pianoforte.....           |                        |                    |                 | 3                                                                         | 157                | 52.33           |
| Picker.....               |                        |                    |                 | 5                                                                         | 303                | 60.06           |
| Plane.....                |                        |                    |                 | 1                                                                         | 79                 | 79.00           |
| Pump and Block .....      |                        |                    |                 | 14                                                                        | 788                | 55.71           |
| Reed.....                 |                        |                    |                 | 6                                                                         | 352                | 58.67           |
| Sash and Blind.....       |                        |                    |                 | 10                                                                        | 502                | 50.20           |
| Scythe.....               |                        |                    |                 | 1                                                                         | 83                 | 83.00           |
| Spindle.....              |                        |                    |                 | 5                                                                         | 297                | 59.40           |
| Stopper.....              |                        |                    |                 | 1                                                                         | 22                 | 22.00           |
| Stove and Mounters.....   |                        |                    |                 | 5                                                                         | 245                | 49.00           |
| Tool.....                 | 8                      | 418                | 52.25           | 40                                                                        | 2,118              | 52.95           |
| Trunk.....                |                        |                    |                 | 3                                                                         | 89                 | 29.67           |
| Umbrella.....             |                        |                    |                 | 2                                                                         | 103                | 51.50           |
| Wringer.....              |                        |                    |                 | 1                                                                         | 32                 | 32.00           |
| Beamers.....              |                        |                    |                 | 2                                                                         | 59                 | 29.50           |
| Bell-hangers.....         |                        |                    |                 | 2                                                                         | 47                 | 23.50           |
| Blacksmiths and Farriers  | 39                     | 2,238              | 57.38           | 757                                                                       | 41,194             | 54.42           |
| Bleachers and Fullers.... | 2                      | 48                 | 24.00           | 72                                                                        | 3,640              | 50.55           |
| Bonnet-dressers.....      |                        |                    |                 | 2                                                                         | 73                 | 36.50           |
| Brewers.....              | 2                      | 110                | 55.00           | 23                                                                        | 1,114              | 48.43           |
| Britannia-Workers.....    |                        |                    |                 | 1                                                                         | 65                 | 65.00           |
| Calico-printers.....      | 2                      | 137                | 68.50           | 59                                                                        | 3,243              | 54.96           |
| Car-builders.....         |                        |                    |                 | 1                                                                         | 57                 | 57.00           |
| Stair.....                |                        |                    |                 | 4                                                                         | 219                | 54.75           |
| Carders.....              | 2                      | 128                | 64.00           | 15                                                                        | 806                | 53.73           |
| Card Grinders.....        |                        |                    |                 | 3                                                                         | 138                | 46.00           |
| Carvers.....              |                        |                    |                 | 3                                                                         | 147                | 49.00           |



TABLE XI.—OCCUPATIONS AND AGES.—Continued.

| OCCUPATIONS.                     | STATE OF RHODE ISLAND. |                 |              |                                                                        |                 |              |
|----------------------------------|------------------------|-----------------|--------------|------------------------------------------------------------------------|-----------------|--------------|
|                                  | 1900.                  |                 |              | FORTY-EIGHT YEARS AND SEVEN MONTHS.<br>June 1, 1852, to Dec. 31, 1900. |                 |              |
|                                  | Total Mortality.       | Aggregate Ages. | Average Age. | Total Mortality.                                                       | Aggregate Ages. | Average Age. |
| Confectioners.....               | 3                      | 156             | 52.00        | 49                                                                     | 2,288           | 46.49        |
| Cooks and Caterers.....          | 13                     | 590             | 45.38        | 134                                                                    | 6,476           | 48.33        |
| Coopers.....                     | 3                      | 198             | 66.00        | 133                                                                    | 8,770           | 65.94        |
| Coppersmiths.....                | 2                      | 125             | 62.50        | 16                                                                     | 969             | 60.56        |
| Cutters.....                     | 1                      | 50              | 50.00        | 8                                                                      | 394             | 49.25        |
| Nail.....                        |                        |                 |              | 12                                                                     | 490             | 40.83        |
| Decorators ..                    |                        |                 |              | 14                                                                     | 526             | 37.57        |
| Distillers.....                  |                        |                 |              | 1                                                                      | 77              | 77.00        |
| Dyers.....                       | 7                      | 328             | 46.85        | 154                                                                    | 7,845           | 50.94        |
| Founders.....                    |                        |                 |              | 10                                                                     | 381             | 38.10        |
| Brass and Iron.....              | 1                      | 57              | 57.00        | 10                                                                     | 620             | 62.00        |
| Foundrymen.....                  | 8                      | 385             | 48.12        | 23                                                                     | 1,209           | 52.56        |
| Gasfitters.....                  | 1                      | 29              | 29.00        | 65                                                                     | 2,830           | 43.54        |
| Gilders.....                     | 1                      | 86              | 86.00        | 12                                                                     | 535             | 44.58        |
| Gun and Locksmiths.....          |                        |                 |              | 26                                                                     | 1,457           | 56.04        |
| Hatters.....                     |                        |                 |              | 26                                                                     | 1,400           | 53.85        |
| Heaters.....                     |                        |                 |              | 6                                                                      | 240             | 40.00        |
| Iron Rollers and Workers.....    | 4                      | 218             | 54.50        | 19                                                                     | 909             | 47.84        |
| Japanners.....                   |                        |                 |              | 1                                                                      | 47              | 47.00        |
| Lathers.....                     | 1                      | 56              | 56.00        | 7                                                                      | 296             | 42.28        |
| Loom-fixers.....                 | 4                      | 144             | 36.00        | 4                                                                      | 144             | 36.00        |
| Machinists.....                  | 86                     | 4,388           | 51.02        | 1,797                                                                  | 88,002          | 48.97        |
| Mechanics.....                   | 9                      | 552             | 61.33        | 508                                                                    | 26,889          | 52.93        |
| Melters.....                     | 2                      | 105             | 52.50        | 12                                                                     | 667             | 55.58        |
| Miners.....                      | 1                      | 61              | 61.00        | 18                                                                     | 1,018           | 56.55        |
| Moulders.....                    | 15                     | 725             | 48.33        | 368                                                                    | 20,127          | 54.69        |
| Painters and Glaziers ..         | 63                     | 3,511           | 55.73        | 1,042                                                                  | 50,824          | 48.77        |
| Paperhangers.....                | 1                      | 63              | 63.00        | 25                                                                     | 1,314           | 52.56        |
| Plasters and Stucco-workers..... | 2                      | 121             | 60.50        | 59                                                                     | 2,856           | 48.41        |
| Platers.....                     |                        |                 |              | 4                                                                      | 251             | 62.75        |
| Electro.....                     |                        |                 |              | 6                                                                      | 389             | 64.83        |
| Gold.....                        |                        |                 |              | 4                                                                      | 163             | 40.75        |
| Plumbers ..                      | 1                      | 29              | 29.00        | 123                                                                    | 4,811           | 39.11        |
| Pressmen.....                    |                        |                 |              | 6                                                                      | 261             | 43.50        |
| Refiners.....                    | 1                      | 69              | 69.00        | 5                                                                      | 189             | 37.80        |
| Gold.....                        |                        |                 |              | 3                                                                      | 153             | 51.00        |
| Oil.....                         |                        |                 |              | 1                                                                      | 76              | 76.00        |
| Sugar.....                       |                        |                 |              | 7                                                                      | 311             | 44.43        |
| Soap-boilers.....                |                        |                 |              | 5                                                                      | 353             | 70.60        |
| Steampipers.....                 | 5                      | 187             | 37.40        | 13                                                                     | 521             | 40.08        |



TABLE XI.—OCCUPATIONS AND AGES.—Continued.

| OCCUPATIONS.                                 | STATE OF RHODE ISLAND. |                    |                 |                                                                           |                    |                 |
|----------------------------------------------|------------------------|--------------------|-----------------|---------------------------------------------------------------------------|--------------------|-----------------|
|                                              | 1900.                  |                    |                 | FORTY-EIGHT YEARS AND<br>SEVEN MONTHS,<br>June 1, 1852, to Dec. 31, 1900. |                    |                 |
|                                              | Total<br>Mortality.    | Aggregate<br>Ages. | Average<br>Age. | Total<br>Mortality.                                                       | Aggregate<br>Ages. | Average<br>Age. |
| Stove Manufacturers . . . . .                |                        |                    |                 | 7                                                                         | 416                | 59.43           |
| Superintendents and Over-<br>seers . . . . . | 25                     | 1,509              | 60.36           | 397                                                                       | 22,099             | 55.66           |
| Tallow Chandlers . . . . .                   |                        |                    |                 | 4                                                                         | 322                | 80.50           |
| Tinsmiths . . . . .                          | 5                      | 279                | 55.80           | 144                                                                       | 6,940              | 48.19           |
| Upholsterers . . . . .                       | 2                      | 120                | 60.00           | 61                                                                        | 2,520              | 41.31           |
| Wire-workers . . . . .                       |                        |                    |                 | 15                                                                        | 644                | 42.93           |
| Wood-carvers . . . . .                       |                        |                    |                 | 4                                                                         | 149                | 37.25           |
| Finishers . . . . .                          |                        |                    |                 | 7                                                                         | 383                | 54.71           |
| Turners . . . . .                            | 7                      | 402                | 57.43           | 55                                                                        | 2,354              | 42.80           |
| Total . . . . .                              | 348                    | 18,686             | 53.70           | 7,094                                                                     | 364,466            | 51.38           |
| . VI.                                        |                        |                    |                 |                                                                           |                    |                 |
| INDOOR.— <i>Activity Restricted.</i>         |                        |                    |                 |                                                                           |                    |                 |
| Barbers . . . . .                            | 18                     | 795                | 44.17           | 281                                                                       | 9,936              | 35.36           |
| Bookbinders . . . . .                        |                        |                    |                 | 27                                                                        | 1,278              | 47.33           |
| Bookkeepers and Account-<br>ants . . . . .   | 13                     | 611                | 47.00           | 452                                                                       | 20,432             | 45.20           |
| Box-makers . . . . .                         | 4                      | 230                | 57.50           | 23                                                                        | 1,070              | 46.52           |
| Chain . . . . .                              |                        |                    |                 | 5                                                                         | 261                | 52.20           |
| Cigar . . . . .                              | 1                      | 86                 | 86.00           | 110                                                                       | 5,052              | 45.92           |
| Clock and Watch . . . . .                    | 2                      | 134                | 67.00           | 44                                                                        | 2,460              | 55.91           |
| Harness, and Saddlers . . . . .              | 4                      | 212                | 53.00           | 138                                                                       | 6,971              | 50.51           |
| Paper . . . . .                              |                        |                    |                 | 7                                                                         | 389                | 55.57           |
| Rope . . . . .                               |                        |                    |                 | 25                                                                        | 1,672              | 66.88           |
| Sail . . . . .                               |                        |                    |                 | 38                                                                        | 2,207              | 58.08           |
| Shoe . . . . .                               | 14                     | 800                | 57.14           | 656                                                                       | 37,974             | 57.88           |
| Chasers . . . . .                            | 2                      | 62                 | 31.00           | 18                                                                        | 666                | 37.00           |
| Clerks and Salesmen . . . . .                | 90                     | 3,361              | 37.34           | 1,407                                                                     | 53,228             | 37.83           |
| Compositors . . . . .                        | 4                      | 184                | 46.00           | 8                                                                         | 382                | 47.75           |
| Die-cutters and Sinkers . . . . .            | 2                      | 88                 | 44.00           | 24                                                                        | 1,138              | 47.41           |
| Enamelers . . . . .                          |                        |                    |                 | 8                                                                         | 445                | 55.62           |
| Engravers . . . . .                          | 1                      | 55                 | 55.00           | 148                                                                       | 7,278              | 49.18           |
| File-cutters . . . . .                       | 5                      | 187                | 37.40           | 97                                                                        | 3,961              | 40.83           |
| Forgers . . . . .                            |                        |                    |                 | 1                                                                         | 40                 | 40.00           |
| Finishers . . . . .                          | 1                      | 44                 | 44.00           | 22                                                                        | 1,085              | 49.32           |

TABLE XI.—OCCUPATIONS AND AGES.—Continued.

| OCCUPATIONS.          | STATE OF RHODE ISLAND. |                    |                 |                                                                           |                    |                 |
|-----------------------|------------------------|--------------------|-----------------|---------------------------------------------------------------------------|--------------------|-----------------|
|                       | 1900.                  |                    |                 | FORTY-EIGHT YEARS AND<br>SEVEN MONTHS,<br>June 1, 1852, to Dec. 31, 1900. |                    |                 |
|                       | Total<br>Mortality.    | Aggregate<br>Ages. | Average<br>Age. | Total<br>Mortality.                                                       | Aggregate<br>Ages. | Average<br>Age. |
| Finishers, Brass..... |                        |                    |                 | 7                                                                         | 314                | 44.86           |
| Folders.....          | 5                      | 242                | 48.40           | 5                                                                         | 242                | 48.40           |
| Glass-blowers.....    |                        |                    |                 | 1                                                                         | 57                 | 57.00           |
| Jewelers.....         | 64                     | 3,102              | 48.47           | 1,218                                                                     | 51,380             | 42.18           |
| Shell.....            |                        |                    |                 | 3                                                                         | 182                | 60.67           |
| Knitters.....         |                        |                    |                 | 3                                                                         | 82                 | 27.33           |
| Lapidaries.....       |                        |                    |                 | 12                                                                        | 430                | 35.83           |
| Millers.....          | 2                      | 145                | 72.50           | 51                                                                        | 2,947              | 57.78           |
| Operatives.....       | 116                    | 5,440              | 46.90           | 2,761                                                                     | 122,126            | 44.23           |
| Pearl-cutters.....    | 1                      | 35                 | 35.00           | 4                                                                         | 157                | 39.25           |
| Polishers.....        | 7                      | 296                | 42.28           | 42                                                                        | 1,914              | 45.57           |
| Marble.....           |                        |                    |                 | 1                                                                         | 62                 | 62.00           |
| Silver.....           | 1                      | 36                 | 36.00           | 2                                                                         | 59                 | 29.50           |
| Steel.....            |                        |                    |                 | 1                                                                         | 42                 | 42.00           |
| Printers.....         | 5                      | 240                | 48.00           | 214                                                                       | 12,188             | 56.95           |
| Proofreaders.....     |                        |                    |                 | 1                                                                         | 70                 | 70.00           |
| Publishers.....       |                        |                    |                 | 1                                                                         | 54                 | 54.00           |
| Roll-coverers.....    | 1                      | 64                 | 64.00           | 34                                                                        | 1,947              | 57.26           |
| Rubber-workers.....   | 11                     | 519                | 47.18           | 198                                                                       | 8,330              | 42.07           |
| Silversmiths.....     | 6                      | 238                | 39.67           | 133                                                                       | 5,929              | 44.58           |
| Tailors.....          | 18                     | 975                | 54.17           | 465                                                                       | 25,785             | 55.45           |
| Wool-sorters.....     | 7                      | 428                | 61.14           | 70                                                                        | 3,448              | 49.26           |
| Total.....            | 405                    | 18,609             | 45.95           | 8,766                                                                     | 395,670            | 45.14           |

## VII.

## OCCUPATIONS AT LARGE.

|                                               |   |     |       |     |       |       |
|-----------------------------------------------|---|-----|-------|-----|-------|-------|
| Army Officers.....                            | 1 | 82  | 82.00 | 9   | 530   | 58.88 |
| Naval.....                                    | 1 | 25  | 25.00 | 20  | 966   | 48.30 |
| Bill-posters.....                             | 1 | 61  | 61.00 | 3   | 162   | 54.00 |
| Boatmen.....                                  | 2 | 84  | 42.00 | 32  | 1,797 | 56.16 |
| Brakemen.....                                 | 9 | 302 | 33.44 | 139 | 4,184 | 30.10 |
| Butlers.....                                  |   |     |       | 5   | 191   | 38.20 |
| Cab-drivers and Hackmen.....                  |   |     |       | 56  | 2,461 | 43.95 |
| Car-drivers, Conductors,<br>and Motormen..... | 8 | 353 | 44.12 | 62  | 2,481 | 40.01 |
| Coachmen.....                                 | 8 | 471 | 58.87 | 209 | 9,271 | 44.36 |
| Drivers.....                                  | 2 | 109 | 54.50 | 49  | 1,816 | 38.08 |

TABLE XI.—OCCUPATIONS AND AGES.—Continued.

| OCCUPATIONS.                           | STATE OF RHODE ISLAND. |                    |                 |                                                                           |                    |                 |
|----------------------------------------|------------------------|--------------------|-----------------|---------------------------------------------------------------------------|--------------------|-----------------|
|                                        | 1900.                  |                    |                 | FORTY-EIGHT YEARS AND<br>SEVEN MONTHS,<br>June 1, 1852, to Dec. 31, 1900. |                    |                 |
|                                        | Total<br>Mortality.    | Aggregate<br>Ages. | Average<br>Age. | Total<br>Mortality.                                                       | Aggregate<br>Ages. | Average<br>Age. |
| Drovers.....                           |                        |                    |                 | 2                                                                         | 83                 | 41.50           |
| Elevator Operators.....                |                        |                    |                 | 2                                                                         | 127                | 63.50           |
| Engineers and Firemen...               | 33                     | 1,926              | 58.36           | 499                                                                       | 24,863             | 49.83           |
| Expressmen.....                        | 5                      | 264                | 52.80           | 109                                                                       | 5,568              | 51.08           |
| Fire Company Members..                 | 1                      | 69                 | 69.00           | 10                                                                        | 455                | 45.50           |
| Fishermen and Oystermen.               | 12                     | 767                | 63.91           | 272                                                                       | 14,724             | 54.13           |
| Footmen.....                           |                        |                    |                 | 1                                                                         | 24                 | 24.00           |
| Highway Surveyors.....                 |                        |                    |                 | 1                                                                         | 61                 | 61.00           |
| Hostlers.....                          | 11                     | 536                | 48.73           | 162                                                                       | 7,025              | 43.36           |
| House-movers.....                      |                        |                    |                 | 9                                                                         | 611                | 67.89           |
| Ice-men.....                           | 1                      | 71                 | 71.00           | 6                                                                         | 395                | 65.83           |
| Janitors.....                          | 7                      | 411                | 58.71           | 107                                                                       | 5,732              | 53.57           |
| Laborers.....                          | 397                    | 19,133             | 48.19           | 11,122                                                                    | 549,826            | 49.43           |
| Lamplighters.....                      | 1                      | 43                 | 43.00           | 21                                                                        | 1,152              | 54.86           |
| Laundrymen.....                        | 4                      | 223                | 55.75           | 23                                                                        | 975                | 42.39           |
| Linemen.....                           | 2                      | 67                 | 33.50           | 14                                                                        | 629                | 44.93           |
| Longshoremen.....                      | 3                      | 141                | 47.00           | 3                                                                         | 141                | 47.00           |
| Lumbermen.....                         | 2                      | 69                 | 34.50           | 4                                                                         | 222                | 55.50           |
| Mail-carriers.....                     | 3                      | 145                | 48.33           | 10                                                                        | 488                | 48.80           |
| Milkmen.....                           | 3                      | 172                | 57.33           | 20                                                                        | 717                | 35.85           |
| Peddlers.....                          | 17                     | 866                | 50.94           | 198                                                                       | 9,912              | 50.06           |
| Pilots.....                            | 1                      | 74                 | 74.00           | 24                                                                        | 1,336              | 55.67           |
| Porters.....                           | 3                      | 146                | 48.67           | 56                                                                        | 2,611              | 46.62           |
| Roofers.....                           | 2                      | 126                | 63.00           | 2                                                                         | 126                | 63.00           |
| Sailors.....                           | 9                      | 405                | 45.00           | 318                                                                       | 15,351             | 48.27           |
| Scissors-grinders.....                 |                        |                    |                 | 1                                                                         | 72                 | 72.00           |
| Sea-captains or Ship-Mas-<br>ters..... | 7                      | 472                | 67.43           | 201                                                                       | 14,410             | 71.69           |
| Servants.....                          |                        |                    |                 | 30                                                                        | 1,322              | 44.07           |
| Sextons.....                           | 1                      | 62                 | 62.00           | 13                                                                        | 813                | 62.54           |
| Sinkers of Artesian Wells.             |                        |                    |                 | 3                                                                         | 163                | 54.33           |
| Soldiers.....                          | 2                      | 59                 | 29.50           | 157                                                                       | 4,872              | 31.03           |
| Stage-drivers.....                     |                        |                    |                 | 8                                                                         | 398                | 49.75           |
| Stevedores.....                        | 2                      | 89                 | 44.50           | 19                                                                        | 901                | 47.42           |
| Stewards.....                          | 1                      | 49                 | 49.00           | 28                                                                        | 1,328              | 47.43           |
| Switchmen, Gatemen, etc.               | 2                      | 109                | 54.50           | 24                                                                        | 1,329              | 55.37           |
| Teamsters.....                         | 38                     | 1,829              | 49.18           | 728                                                                       | 34,009             | 46.71           |
| Theatrical Managers.....               |                        |                    |                 | 3                                                                         | 137                | 45.67           |
| Waiters.....                           | 5                      | 227                | 45.40           | 133                                                                       | 5,396              | 40.57           |
| Watchmen.....                          | 12                     | 679                | 56.58           | 200                                                                       | 11,471             | 57.35           |
| Well-diggers.....                      |                        |                    |                 | 4                                                                         | 295                | 73.75           |

TABLE XI.—OCCUPATIONS AND AGES.—Continued.

| OCCUPATIONS.      | STATE OF RHODE ISLAND. |                    |                 |                                                                           |                    |                 |
|-------------------|------------------------|--------------------|-----------------|---------------------------------------------------------------------------|--------------------|-----------------|
|                   | 1900.                  |                    |                 | FORTY-EIGHT YEARS AND<br>SEVEN MONTHS.<br>June 1, 1852, to Dec. 31, 1900. |                    |                 |
|                   | Total<br>Mortality.    | Aggregate<br>Ages. | Average<br>Age. | Total<br>Mortality.                                                       | Aggregate<br>Ages. | Average<br>Age. |
| Whitewashers..... |                        |                    |                 | 8                                                                         | 452                | 56.50           |
| Wood-sawyers..... |                        |                    |                 | 5                                                                         | 239                | 47.80           |
| Total.....        | 619                    | 30,716             | 49.62           | 15,144                                                                    | 744,619            | 49.17           |

## VIII.

## EMPLOYMENTS OF WOMEN.

|                           |    |     |       |     |        |       |
|---------------------------|----|-----|-------|-----|--------|-------|
| Actresses.....            |    |     |       | 3   | 112    | 37.33 |
| Agents.....               |    |     |       | 1   | 59     | 59.00 |
| Artists.....              |    |     |       | 6   | 321    | 53.50 |
| Basket-makers.....        |    |     |       | 2   | 149    | 74.50 |
| Box.....                  |    |     |       | 5   | 150    | 30.00 |
| Broom and Brush.....      |    |     |       | 1   | 34     | 34.00 |
| Braid.....                |    |     |       | 1   | 66     | 66.00 |
| Cap.....                  |    |     |       | 1   | 28     | 28.00 |
| Chain.....                |    |     |       | 4   | 152    | 38.00 |
| Cigar.....                |    |     |       | 8   | 243    | 30.37 |
| Dress, and Seamstresses.. | 10 | 456 | 45.60 | 395 | 15,946 | 40.37 |
| Boardinghouse-Keepers..   |    |     |       | 26  | 1,626  | 62.54 |
| Boatwomen.....            |    |     |       | 1   | 60     | 60.00 |
| Bookkeepers.....          | 2  | 46  | 23.00 | 18  | 538    | 29.89 |
| Charwomen.....            |    |     |       | 1   | 60     | 60.00 |
| Clerks and Saleswomen...  | 5  | 114 | 22.80 | 46  | 1,272  | 27.66 |
| Compositors.....          |    |     |       | 1   | 28     | 28.00 |
| Cooks.....                | 7  | 374 | 53.43 | 59  | 3,125  | 52.97 |
| Farming.....              |    |     |       | 2   | 124    | 62.00 |
| Hairdressers.....         |    |     |       | 2   | 55     | 27.50 |
| Jewelers.....             | 3  | 85  | 28.33 | 20  | 564    | 28.20 |
| Laboring.....             |    |     |       | 16  | 699    | 43.69 |
| Lace-Knitters.....        |    |     |       | 1   | 49     | 49.00 |
| Laundresses.....          | 4  | 217 | 54.25 | 51  | 2,536  | 49.73 |
| Matrons.....              |    |     |       | 2   | 102    | 51.00 |
| Midwives.....             |    |     |       | 2   | 128    | 64.00 |
| Milliners.....            | 3  | 126 | 42.00 | 63  | 2,262  | 35.90 |
| Modistes.....             |    |     |       | 1   | 38     | 38.00 |
| Musicians.....            |    |     |       | 4   | 125    | 31.00 |
| Nurses.....               | 4  | 195 | 48.75 | 128 | 7,445  | 58.16 |
| Oculists.....             | 1  | 59  | 59.00 | 1   | 59     | 59.00 |

TABLE XI.—OCCUPATIONS AND AGES.—Continued.

| OCCUPATIONS.                              | STATE OF RHODE ISLAND. |                    |                 |                                                                           |                    |                 |
|-------------------------------------------|------------------------|--------------------|-----------------|---------------------------------------------------------------------------|--------------------|-----------------|
|                                           | 1900.                  |                    |                 | FORTY-EIGHT YEARS AND<br>SEVEN MONTHS,<br>June 1, 1852, to Dec. 31, 1900. |                    |                 |
|                                           | Total<br>Mortality.    | Aggregate<br>Ages. | Average<br>Age. | Total<br>Mortality.                                                       | Aggregate<br>Ages. | Average<br>Age. |
| Operatives.....                           | 46                     | 1,596              | 34.69           | 1,112                                                                     | 35,305             | 29.04           |
| Physicians.....                           |                        |                    |                 | 11                                                                        | 647                | 58.82           |
| Postmistresses.....                       |                        |                    |                 | 1                                                                         | 28                 | 28.00           |
| Public Officers.....                      |                        |                    |                 | 2                                                                         | 110                | 55.00           |
| Rubber-workers.....                       | 2                      | 56                 | 28.00           | 23                                                                        | 668                | 29.04           |
| Servants.....                             | 25                     | 1,172              | 46.88           | 583                                                                       | 27,803             | 45.97           |
| Sisters of Mercy.....                     | 2                      | 93                 | 46.50           | 38                                                                        | 1,531              | 40.29           |
| Stenographers.....                        |                        |                    |                 | 2                                                                         | 43                 | 21.50           |
| Stewardesses.....                         |                        |                    |                 | 2                                                                         | 114                | 57.00           |
| Storekeepers.....                         | 2                      | 125                | 62.50           | 2                                                                         | 99                 | 49.50           |
| Superintendents.....                      |                        |                    |                 | 2                                                                         | 126                | 63.00           |
| Tailoresses.....                          | 1                      | 75                 | 75.00           | 150                                                                       | 7,010              | 46.73           |
| Teachers.....                             | 4                      | 192                | 48.00           | 258                                                                       | 13,033             | 50.52           |
| Music.....                                | 1                      | 24                 | 24.00           | 1                                                                         | 24                 | 24.00           |
| Telegraph and Telephone<br>Operators..... | 4                      | 133                | 33.25           | 10                                                                        | 299                | 29.90           |
| Upholsterers.....                         |                        |                    |                 | 1                                                                         | 34                 | 34.00           |
| Waitresses.....                           | 2                      | 50                 | 25.00           | 12                                                                        | 341                | 28.42           |
| Total.....                                | 128                    | 5,188              | 4,053           | 3,082                                                                     | 125,370            | 40.68           |

TABLE XI.—OCCUPATIONS AND AGES.—(RECAPITULATION.)

| OCCUPATIONS.                        | STATE OF RHODE ISLAND. |                    |                 |                                                                           |                    |                 |
|-------------------------------------|------------------------|--------------------|-----------------|---------------------------------------------------------------------------|--------------------|-----------------|
|                                     | 1900.                  |                    |                 | FORTY-EIGHT YEARS AND<br>SEVEN MONTHS,<br>June 1, 1852, to Dec. 31, 1900. |                    |                 |
|                                     | Total<br>Mortality.    | Aggregate<br>Ages. | Average<br>Age. | Total<br>Mortality.                                                       | Aggregate<br>Ages. | Average<br>Age. |
| I.                                  |                        |                    |                 |                                                                           |                    |                 |
| TILLERS OF THE SOIL . . . . .       | 187                    | 12,493             | 66.81           | 7,592                                                                     | 506,808            | 66.75           |
| II.                                 |                        |                    |                 |                                                                           |                    |                 |
| PROFESSIONAL AND PERSONAL.          | 76                     | 4,305              | 56.64           | 1,858                                                                     | 100,524            | 54.10           |
| III.                                |                        |                    |                 |                                                                           |                    |                 |
| OPTIONAL ACTIVITY . . . . .         | 196                    | 10,829             | 55.25           | 5,012                                                                     | 281,016            | 56.07           |
| IV.                                 |                        |                    |                 |                                                                           |                    |                 |
| OUTDOOR.— <i>Local</i> . . . . .    | 160                    | 9,377              | 58.60           | 4,032                                                                     | 226,479            | 56.17           |
| V.                                  |                        |                    |                 |                                                                           |                    |                 |
| INDOOR.— <i>Active</i> . . . . .    | 348                    | 18,686             | 53.70           | 7,094                                                                     | 364,466            | 51.38           |
| VI.                                 |                        |                    |                 |                                                                           |                    |                 |
| INDOOR.— <i>Activity Restricted</i> | 405                    | 18,609             | 45.95           | 8,766                                                                     | 395,670            | 45.14           |
| VII.                                |                        |                    |                 |                                                                           |                    |                 |
| OCCUPATIONS AT LARGE . . . . .      | 619                    | 30,716             | 49.62           | 15,144                                                                    | 744,619            | 49.17           |
| VIII.                               |                        |                    |                 |                                                                           |                    |                 |
| EMPLOYMENTS OF WOMEN . . . . .      | 128                    | 5,188              | 40.53           | 3,082                                                                     | 125,370            | 40.68           |
| ALL CLASSES . . . . .               | 2,119                  | 110,203            | 52.01           | 52,580                                                                    | 2,744,952          | 52.21           |



TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1900.

[AGES UNDER TWENTY EXCLUDED.]

| OCCUPATIONS.               | Whole Number. | Accidents. | Alcoholism. | Apoplexy and Paralysis. | Asthma. | Bladder, Diseases of. | Bowel Diseases. | Brain, Diseases of. | Bronchitis. | Cancer. | Consumption. | Diabetes. | Diarrhoea and Dysentery. | Enteritis. | Epilepsy. | Erysipelas. | Fever, Typhoid, etc. | Heart Diseases. | Influenza. | Insanity. | Kidney Diseases. | Liver Diseases. | Old Age. | Pleurisy. | Pneumonia. | Rheumatism. | Stomach Diseases. | Suicide. |  |
|----------------------------|---------------|------------|-------------|-------------------------|---------|-----------------------|-----------------|---------------------|-------------|---------|--------------|-----------|--------------------------|------------|-----------|-------------|----------------------|-----------------|------------|-----------|------------------|-----------------|----------|-----------|------------|-------------|-------------------|----------|--|
| I.                         |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |  |
| TILLERS OF THE SOIL.       |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |  |
| Farmers. ....              | 148           | 7          | 2           | 17                      | 2       | 2                     | 3               | 1                   | 10          | 6       | 1            | 4         | 1                        | 4          | ...       | ...         | 1                    | 3               | 29         | 6         | 15               | 2               | 14       | 20        | ...        | ...         | 3                 | 2        |  |
| Florists ....              | 4             | 1          | 1           | ...                     | ...     | ...                   | ...             | ...                 | ...         | 1       | ...          | ...       | ...                      | ...        | ...       | ...         | ...                  | ...             | ...        | ...       | ...              | ...             | ...      | 1         | ...        | ...         | ...               | ...      |  |
| Gardeners.....             | 32            | 2          | 3           | ...                     | ...     | ...                   | ...             | ...                 | 1           | 3       | 5            | 1         | 1                        | 1          | ...       | ...         | ...                  | 1               | 5          | 2         | 5                | 1               | 2        | ...       | ...        | ...         | ...               | ...      |  |
| Total.....                 | 184           | 8          | 4           | 21                      | 2       | 2                     | 3               | 2                   | 13          | 12      | 2            | 5         | ...                      | 5          | ...       | ...         | 1                    | 4               | 34         | 8         | 20               | 3               | 16       | 21        | ...        | ...         | 3                 | 2        |  |
| II.                        |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |  |
| PROFESSIONAL AND PERSONAL. |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |  |
| Acrobats.....              | 1             | ...        | ...         | ...                     | ...     | ...                   | ...             | ...                 | ...         | ...     | 1            | ...       | ...                      | ...        | ...       | ...         | ...                  | ...             | ...        | ...       | ...              | ...             | ...      | ...       | ...        | ...         | ...               | ...      |  |
| Artists.....               | 2             | ...        | ...         | ...                     | ...     | ...                   | ...             | ...                 | ...         | ...     | 1            | ...       | ...                      | ...        | ...       | ...         | ...                  | ...             | ...        | ...       | ...              | ...             | ...      | ...       | 1          | ...         | ...               | ...      |  |



TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1900.—Continued.

| OCCUPATIONS.                | Whole Number. | CAUSES OF DEATH. |             |                         |                       |                 |                     |             |         |              |           |                          |            |           |             |                  |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
|-----------------------------|---------------|------------------|-------------|-------------------------|-----------------------|-----------------|---------------------|-------------|---------|--------------|-----------|--------------------------|------------|-----------|-------------|------------------|----------------------|-----------------|------------|-----------|------------------|-----------------|----------|-----------|------------|-------------|-------------------|----------|
|                             |               | Accidents.       | Alcoholism. | Apoplexy and Paralysis. | Bladder, Diseases of. | Bowel Diseases. | Brain, Diseases of. | Bronchitis. | Cancer. | Consumption. | Diabetes. | Diarrhoea and Dysentery. | Enteritis. | Epilepsy. | Erysipelas. | Fever, Malarial. | Fever, Typhoid, etc. | Heart Diseases. | Influenza. | Insanity. | Kidney Diseases. | Liver Diseases. | Old Age. | Pleurisy. | Pneumonia. | Rheumatism. | Stomach Diseases. | Suicide. |
| Treasurers.....             | 2             | ..               | 1           | 1                       | ..                    | ..              | ..                  | ..          | ..      | ..           | ..        | ..                       | ..         | ..        | ..          | 1                | ..                   | 1               | ..         | ..        | ..               | ..              | ..       | ..        | ..         | ..          | ..                | ..       |
| Weighers and Gaugers.....   | 1             | ..               | ..          | ..                      | ..                    | ..              | ..                  | ..          | ..      | ..           | ..        | ..                       | ..         | ..        | ..          | ..               | ..                   | 1               | ..         | ..        | ..               | ..              | ..       | ..        | ..         | ..          | ..                | ..       |
| Total.....                  | 72            | 2                | 5           | 5                       | 3                     | 4               | 2                   | 4           | 2       | 8            | 4         | 1                        | 1          | 1         | 1           | 1                | 3                    | 10              | 1          | 1         | 5                | 14              | 1        | 3         | 4          | 4           | 1                 | 1        |
| III.                        |               |                  |             |                         |                       |                 |                     |             |         |              |           |                          |            |           |             |                  |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| OPTIONAL ACTIVITY.          |               |                  |             |                         |                       |                 |                     |             |         |              |           |                          |            |           |             |                  |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| Agents and Canvassers.....  | 4             | ..               | 1           | 1                       | ..                    | ..              | ..                  | 1           | ..      | ..           | ..        | ..                       | ..         | ..        | ..          | ..               | ..                   | ..              | ..         | ..        | ..               | ..              | ..       | 2         | ..         | ..          | ..                | 2        |
| Insurance.....              | 7             | ..               | 2           | 2                       | ..                    | ..              | ..                  | 1           | ..      | ..           | 1         | ..                       | ..         | ..        | ..          | ..               | ..                   | 1               | ..         | ..        | ..               | ..              | ..       | ..        | ..         | ..          | ..                | 1        |
| Real Estate.....            | 2             | ..               | 1           | 1                       | ..                    | ..              | ..                  | ..          | ..      | ..           | ..        | ..                       | ..         | ..        | ..          | ..               | ..                   | ..              | ..         | ..        | ..               | ..              | ..       | ..        | ..         | ..          | ..                | ..       |
| Bankers and Brokers.....    | 10            | ..               | 4           | 4                       | ..                    | 1               | ..                  | 1           | 1       | 2            | ..        | ..                       | ..         | ..        | ..          | ..               | ..                   | 1               | 1          | 1         | 2                | ..              | ..       | ..        | ..         | ..          | ..                | ..       |
| Bank Officers.....          | 1             | ..               | ..          | ..                      | ..                    | ..              | ..                  | ..          | ..      | ..           | ..        | ..                       | ..         | ..        | ..          | ..               | ..                   | 1               | 1          | ..        | ..               | ..              | ..       | ..        | ..         | ..          | ..                | ..       |
| Bartenders.....             | 4             | ..               | ..          | ..                      | ..                    | ..              | ..                  | 2           | ..      | ..           | ..        | ..                       | ..         | ..        | ..          | 1                | 1                    | 1               | 1          | ..        | ..               | ..              | ..       | ..        | ..         | ..          | ..                | ..       |
| Butchers and Marketmen..... | 11            | 1                | 1           | 1                       | ..                    | 1               | ..                  | 1           | ..      | 2            | ..        | 1                        | ..         | ..        | 1           | 1                | 1                    | ..              | ..         | ..        | 1                | 1               | 1        | ..        | 5          | ..          | 1                 | ..       |
| Clothiers.....              | 1             | ..               | ..          | ..                      | ..                    | ..              | ..                  | ..          | ..      | ..           | ..        | ..                       | ..         | ..        | ..          | ..               | ..                   | ..              | ..         | ..        | 1                | ..              | ..       | ..        | ..         | ..          | ..                | ..       |



TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1900.—Continued.

| OCCUPATIONS.                    | Whole Number. | Accidents. | Alcoholism. | Apoplexy and Paralysis. | Asthma. | Bladder, Diseases of. | Bowel Diseases. | Brain, Diseases of. | Bronchitis. | Cancer. | Consumption. | Diabetes. | Diarrhea and Dysentery. | Enteritis. | Epilepsy. | Erysipelas. | Fevers, Typhoid, etc. | Heart Diseases. | Influenza. | Insanity. | Kidney Diseases. | Liver Diseases. | Old Age. | Pleurisy. | Pneumonia. | Rheumatism. | Stomach Diseases. | Suicide. |   |
|---------------------------------|---------------|------------|-------------|-------------------------|---------|-----------------------|-----------------|---------------------|-------------|---------|--------------|-----------|-------------------------|------------|-----------|-------------|-----------------------|-----------------|------------|-----------|------------------|-----------------|----------|-----------|------------|-------------|-------------------|----------|---|
|                                 |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                         |            |           |             |                       |                 |            |           |                  |                 |          |           |            |             |                   |          |   |
| Stable Keepers.....             | 1             | 1          |             |                         |         |                       |                 |                     |             |         | 1            |           |                         |            |           |             |                       |                 |            |           |                  |                 |          |           |            |             |                   |          |   |
| Store.....                      | 7             |            |             | 1                       |         |                       |                 | 1                   |             |         |              |           |                         |            |           |             |                       |                 | 3          |           |                  | 1               |          |           | 1          |             |                   |          |   |
| Manufacturers.....              | 25            | 1          |             | 1                       |         |                       |                 |                     | 1           |         | 4            | 1         | 1                       |            |           |             |                       | 1               | 6          | 1         | 6                | 1               | 1        |           |            | 1           |                   |          |   |
| Merchants.....                  | 37            | 2          |             | 7                       |         | 5                     |                 | 1                   | 1           |         | 1            | 1         |                         |            |           |             |                       | 1               | 5          | 1         | 4                | 1               | 2        |           | 5          | 1           |                   |          |   |
| Pork and Meat Cutters, etc..... | 1             |            |             |                         |         |                       |                 |                     |             |         | 1            |           |                         |            |           |             |                       |                 |            |           |                  |                 |          |           |            |             |                   |          |   |
| Railroad Officials.....         | 3             |            |             |                         |         |                       |                 |                     |             |         |              |           |                         |            |           |             |                       | 1               | 1          |           |                  |                 |          |           | 1          |             |                   |          |   |
| Undertakers.....                | 6             |            |             |                         |         |                       |                 |                     |             |         | 2            |           |                         |            |           |             |                       |                 | 1          |           |                  |                 | 1        | 1         | 1          |             |                   |          |   |
| Total.....                      | 190           | 5          | 4           | 27                      |         | 3                     | 2               | 4                   | 3           | 5       | 21           | 4         | 1                       | 1          | 1         | 1           |                       | 4               | 29         | 7         | 2                | 18              | 9        | 5         | 1          | 23          | 2                 | 2        | 7 |
| IV.                             |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                         |            |           |             |                       |                 |            |           |                  |                 |          |           |            |             |                   |          |   |
| OUTDOOR.—Local.                 |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                         |            |           |             |                       |                 |            |           |                  |                 |          |           |            |             |                   |          |   |
| Carpenters and Joiners.....     | 97            | 6          | 1           | 10                      | 1       | 1                     |                 | 3                   | 1           | 1       | 11           |           | 3                       | 2          | 1         |             |                       | 3               | 10         | 3         | 1                | 6               | 2        | 2         |            | 16          | 2                 | 1        |   |
| Caulkers.....                   | 1             | 1          |             |                         |         |                       |                 |                     |             |         |              |           |                         |            |           |             |                       |                 |            |           |                  |                 |          |           |            |             |                   |          |   |
| Masons.....                     | 33            | 2          |             | 4                       |         |                       |                 |                     | 1           | 3       | 4            |           | 1                       |            |           |             |                       |                 | 2          | 1         | 1                | 5               |          | 4         |            | 4           |                   |          | 1 |





TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1900.—Continued.

| OCCUPATIONS.           | Whole Number. | Accidents. |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Alcoholism. | Apoplexy and Paralysis. | Asthma. | Bladder, Diseases of. | Bowel Diseases. | Brain, Diseases of. | Bronchitis. | Cancer. | Consumption. | Diabetes. | Diarrhoea and Dysentery. | Enteritis. | Epilepsy. | Erysipelas. | Fevers, Malarial. | Fevers, Typhoid, etc. | Heart Diseases. | Influenza. | Insanity. | Kidney Diseases. | Liver Diseases. | Old Age. | Pleurisy. | Pneumonia. | Rheumatism. | Stomach Diseases. | Suicide. |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    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|                        |               |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                   |                       |                 |            |           |                  |                 |          |           |            |             |                   |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    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| Broom and Brush Makers | 1             | ..         | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ..          | ..                      | ..      | ..                    | ..              | ..                  | ..          | ..      | ..           | ..        | ..                       | ..         | ..        | ..          | ..                | ..                    | ..              | ..         | ..        | ..               | ..              | ..       | ..        | ..         | ..          | ..                | ..       | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. 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| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |

TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1900.—Continued.

| OCCUPATIONS.                       | Whole Number. |             |                         |         |                       |                 |                     |             |         |              |           |                         |            |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
|------------------------------------|---------------|-------------|-------------------------|---------|-----------------------|-----------------|---------------------|-------------|---------|--------------|-----------|-------------------------|------------|-------------|----------------------|-----------------|------------|-----------|------------------|-----------------|----------|-----------|------------|-------------|-------------------|----------|
|                                    | Accidents.    | Alcoholism. | Apoplexy and Paralysis. | Asthma. | Bladder, Diseases of. | Bowel Diseases. | Brain, Diseases of. | Bronchitis. | Cancer. | Consumption. | Diabetes. | Diarrhea and Dysentery. | Enteritis. | Erysipelas. | Fever, Typhoid, etc. | Heart Diseases. | Influenza. | Insanity. | Kidney Diseases. | Liver Diseases. | Old Age. | Pleurisy. | Pneumonia. | Rheumatism. | Stomach Diseases. | Suicide. |
| Lathers.....                       | 1             |             |                         |         |                       |                 |                     |             |         |              | 1         |                         |            |             |                      |                 |            |           | 1                |                 |          |           |            |             |                   |          |
| Loom Fixers.....                   |               |             |                         |         |                       |                 |                     |             |         | 1            | 1         |                         |            |             |                      | 1               |            |           |                  |                 |          |           |            |             |                   |          |
| Machinists.....                    | 82            | 5           | 11                      | 1       | 1                     | 2               | 1                   | 3           | 14      |              |           |                         |            |             |                      | 4               | 6          | 7         | 2                | 9               | 1        | 2         | 8          | 1           |                   | 1        |
| Mechanics.....                     | 9             | 1           |                         |         |                       | 1               |                     |             |         | 3            |           | 1                       |            |             |                      | 1               |            |           |                  | 1               |          | 1         |            |             |                   |          |
| Melters.....                       | 2             | 1           |                         |         |                       |                 |                     |             |         |              |           |                         |            |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| Miners.....                        | 1             | 1           |                         |         |                       |                 |                     |             |         |              |           |                         |            |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| Moulders.....                      | 15            | 1           | 1                       |         |                       |                 | 1                   | 2           | 4       |              |           | 1                       |            |             |                      | 1               |            |           |                  |                 |          |           | 3          |             |                   | 1        |
| Painters and Glaziers.....         | 62            | 7           | 1                       | 5       |                       | 1               | 1                   | 1           | 1       | 9            |           | 1                       | 1          |             |                      | 1               | 10         | 3         | 1                | 12              |          | 2         | 5          |             |                   | 1        |
| Paper-hangers.....                 | 1             |             | 1                       |         |                       |                 |                     |             |         |              |           |                         |            |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| Plasterers and Stucco-workers..... | 2             |             |                         |         |                       |                 |                     |             |         |              |           |                         |            |             |                      |                 |            |           | 2                |                 |          |           |            |             |                   |          |
| Refiners.....                      | 1             |             |                         |         |                       |                 |                     | 1           |         |              |           |                         |            |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| Steam-pipers.....                  | 5             | 1           |                         |         |                       |                 |                     |             |         | 3            |           |                         |            |             |                      |                 |            |           |                  |                 |          |           | 1          |             |                   |          |
| Superintendents and Overseers..... | 25            | 5           | 1                       |         |                       |                 |                     | 1           | 3       | 1            |           |                         |            | 1           |                      | 3               | 1          |           | 4                | 1               | 1        | 3         |            |             |                   |          |
| Tinsmiths.....                     | 5             |             |                         |         |                       |                 |                     |             |         | 1            |           |                         |            |             |                      | 1               | 1          |           |                  |                 |          |           | 2          |             |                   |          |
| Upholsterers.....                  | 2             |             |                         |         |                       |                 |                     |             |         |              |           |                         |            |             |                      | 1               |            |           |                  |                 |          |           |            |             |                   |          |
| Wood-turners.....                  | 7             |             |                         |         |                       |                 | 1                   | 1           | 1       |              |           |                         |            |             |                      |                 | 1          |           | 1                |                 |          |           | 2          |             |                   |          |
| Total.....                         | 339           | 29          | 7                       | 31      | 1                     | 3               | 6                   | 4           | 19      | 60           | 4         | 6                       | 1          |             | 1                    | 8               | 39         | 17        | 4                | 41              | 4        | 6         | 35         | 1           | 3                 | 7        |





TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1900.—Continued.

| OCCUPATIONS.                 |    | Whole Number. | Accidents. | Alcoholism. | Apoplexy and Paralysis. | Asthma. | Bladder, Diseases of. | Bowel Diseases. | Brain, Diseases of. | Bronchitis. | Cancer. | Consumption. | Diabetes. | Diarrhoea and Dysentery. | Enteritis. | Epilepsy. | Erysipelas. | Fever, Typhoid, etc. | Heart Diseases. | Influenza. | Insanity. | Kidney Diseases. | Liver Diseases. | Old Age. | Pleurisy. | Pneumonia. | Rheumatism. | Stomach Diseases. | Suicide. |
|------------------------------|----|---------------|------------|-------------|-------------------------|---------|-----------------------|-----------------|---------------------|-------------|---------|--------------|-----------|--------------------------|------------|-----------|-------------|----------------------|-----------------|------------|-----------|------------------|-----------------|----------|-----------|------------|-------------|-------------------|----------|
| VII.                         |    |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| OCCUPATIONS AT LARGE.        |    |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| Army Officers.....           | 1  | 1             |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                      |                 |            | 1         |                  |                 |          |           |            |             |                   |          |
| Naval.....                   | 1  |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             | 1                    |                 |            |           |                  |                 |          |           |            |             |                   |          |
| Bill-posters.....            | 1  | 1             |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| Boatmen.....                 | 2  | 1             |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             | 1                    |                 |            |           |                  |                 |          |           |            |             |                   |          |
| Brakemen.....                | 9  | 8             |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             | 2                    |                 |            |           | 1                |                 | 1        |           |            |             |                   |          |
| Coachmen.....                | 8  |               |            | 1           |                         |         |                       |                 | 1                   |             |         | 1            |           |                          |            |           |             |                      |                 |            | 1         |                  | 1               |          |           |            |             |                   |          |
| Conductors and Motormen..... | 5  | 2             | 1          |             |                         |         |                       |                 |                     |             | 1       |              |           |                          |            |           |             |                      |                 | 1          |           |                  |                 |          |           |            |             |                   |          |
| Drivers.....                 | 2  |               | 1          |             |                         |         |                       |                 | 1                   |             |         |              |           |                          |            |           |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| Engineers and Firemen.....   | 30 | 2             | 3          |             |                         |         |                       |                 | 1                   | 2           |         | 4            | 1         |                          |            |           |             |                      | 5               | 2          |           | 5                |                 | 1        |           | 4          |             |                   |          |
| Expressmen.....              | 5  | 1             | 1          |             |                         |         |                       |                 |                     |             |         | 1            |           |                          |            |           |             |                      |                 | 1          |           |                  |                 |          |           |            |             | 1                 |          |
| Fire Company Members.....    | 1  |               | 1          |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| Fishermen and Oystermen..... | 12 | 1             | 1          |             |                         |         | 1                     |                 |                     |             |         | 1            |           |                          |            |           |             |                      | 2               |            |           |                  |                 | 3        |           |            |             | 1                 | 1        |
| Hostlers.....                | 11 |               | 1          |             |                         |         |                       |                 | 1                   |             |         | 1            |           |                          | 1          |           |             |                      | 3               |            |           | 1                |                 |          |           | 3          |             |                   |          |





TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1900.—Continued.

| OCCUPATIONS.                      | Whole Number. | Accidents. | Alcoholism. | Apoplexy and Paralysis. | Asthma. | Bladder, Diseases of. | Bowel Diseases. | Brain, Diseases of. | Bronchitis. | Cancer. | Consumption. | Diabetes. | Diarrhoea and Dysentery. | Enteritis. | Epilepsy. | Erysipelas. | Fever, Malarial. | Fever, Typhoid, etc. | Heart Diseases. | Influenza. | Insanity. | Kidney Diseases. | Liver Diseases. | Old Age. | Pleurisy. | Pneumonia. | Rheumatism. | Stomach Diseases. | Suicide. |
|-----------------------------------|---------------|------------|-------------|-------------------------|---------|-----------------------|-----------------|---------------------|-------------|---------|--------------|-----------|--------------------------|------------|-----------|-------------|------------------|----------------------|-----------------|------------|-----------|------------------|-----------------|----------|-----------|------------|-------------|-------------------|----------|
| Stewards.....                     | 2             |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                  |                      |                 |            |           | 1                |                 |          |           |            |             |                   |          |
| Switchmen and Gatemen.....        | 1             |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                  |                      |                 |            | 1         |                  |                 |          |           |            |             |                   |          |
| Teamsters.....                    | 36            | 5          | 1           | 1                       |         |                       |                 |                     |             | 1       | 9            |           |                          |            |           |             | 1                |                      | 5               |            |           | 4                | 2               |          |           | 5          | 1           |                   | 1        |
| Waiters.....                      | 4             |            |             |                         |         |                       |                 |                     |             |         | 3            |           |                          |            |           |             |                  |                      | 1               |            |           |                  |                 |          |           |            |             |                   |          |
| Watchmen.....                     | 12            |            |             | 4                       |         |                       |                 |                     |             | 1       | 1            |           |                          |            |           |             |                  |                      | 3               |            | 1         |                  |                 |          |           |            |             |                   |          |
| Total.....                        | 600           | 67         | 14          | 42                      | 2       | 3                     | 3               | 12                  | 12          | 26      | 104          | 1         | 6                        | 8          | 1         | 2           | 5                | 14                   | 73              | 16         | 2         | 56               | 8               | 16       | 2         | 88         | 2           | 8                 | 7        |
| VIII.                             |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                  |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| EMPLOYMENTS OF WOMEN.             |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                  |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| Bookkeepers.....                  | 2             |            |             |                         |         |                       |                 |                     |             |         | 2            |           |                          |            |           |             |                  |                      |                 |            |           |                  |                 |          |           |            |             |                   |          |
| Clerks and Saleswomen.....        | 3             |            |             |                         |         |                       |                 |                     |             |         | 2            |           |                          |            |           |             |                  |                      |                 |            |           | 1                |                 |          |           |            |             |                   |          |
| Cooks.....                        | 6             |            |             | 2                       |         |                       |                 |                     |             |         | 1            | 1         |                          |            |           |             |                  | 1                    |                 |            |           |                  |                 | 1        |           |            |             |                   |          |
| Dressmakers and Seamstresses..... | 10            |            |             | 1                       |         |                       |                 |                     |             |         | 1            | 1         |                          |            |           |             |                  | 2                    |                 | 1          |           | 3                |                 |          |           |            |             |                   |          |

TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1900.—Continued.

| OCCUPATIONS.                           | Whole Number. | Accidents.  |                         |         |                       |                 |                     |             |         |              |           |                         |            |           |             |                  | Causes of Death.     |            |           |                  |                 |          |           |            |             |                   |          |  |  |  |  |
|----------------------------------------|---------------|-------------|-------------------------|---------|-----------------------|-----------------|---------------------|-------------|---------|--------------|-----------|-------------------------|------------|-----------|-------------|------------------|----------------------|------------|-----------|------------------|-----------------|----------|-----------|------------|-------------|-------------------|----------|--|--|--|--|
|                                        |               | Alcoholism. | Apoplexy and Paralysis. | Asthma. | Bladder, Diseases of. | Bowel Diseases. | Brain, Diseases of. | Bronchitis. | Cancer. | Consumption. | Diabetes. | Diarrhea and Dysentery. | Enteritis. | Epilepsy. | Erysipelas. | Fever, Malarial. | Fever, Typhoid, etc. | Influenza. | Insanity. | Kidney Diseases. | Liver Diseases. | Old Age. | Pleurisy. | Pneumonia. | Rheumatism. | Stomach Diseases. | Suicide. |  |  |  |  |
| Jewelers.....                          | 3             | ..          | ..                      | ..      | ..                    | ..              | ..                  | ..          | 1       | 1            | ..        | ..                      | ..         | ..        | ..          | 1                | ..                   | ..         | ..        | ..               | ..              | ..       | ..        | ..         | ..          | 1                 |          |  |  |  |  |
| Laundresses.....                       | 4             | ..          | ..                      | ..      | ..                    | ..              | ..                  | ..          | 1       | 1            | ..        | ..                      | ..         | ..        | ..          | ..               | ..                   | ..         | ..        | ..               | ..              | ..       | ..        | 1          | ..          | ..                |          |  |  |  |  |
| Milliners.....                         | 3             | 1           | ..                      | ..      | ..                    | ..              | ..                  | ..          | 2       | ..           | ..        | ..                      | ..         | ..        | ..          | ..               | ..                   | ..         | ..        | ..               | ..              | ..       | ..        | ..         | ..          | ..                |          |  |  |  |  |
| Nurses.....                            | 4             | ..          | ..                      | ..      | ..                    | ..              | ..                  | 1           | 1       | 1            | ..        | ..                      | ..         | ..        | ..          | 1                | ..                   | ..         | ..        | ..               | ..              | 1        | ..        | ..         | ..          | ..                |          |  |  |  |  |
| Oculists.....                          | 1             | ..          | ..                      | ..      | ..                    | ..              | ..                  | 1           | 1       | ..           | ..        | ..                      | ..         | ..        | ..          | ..               | ..                   | ..         | ..        | ..               | ..              | ..       | ..        | ..         | ..          | ..                |          |  |  |  |  |
| Operators.....                         | 44            | 1           | ..                      | ..      | ..                    | ..              | 1                   | 3           | 26      | 1            | ..        | 1                       | ..         | ..        | ..          | ..               | 2                    | 1          | ..        | 3                | ..              | ..       | 3         | 2          | 1           | 1                 |          |  |  |  |  |
| Rubber-workers.....                    | 2             | ..          | ..                      | ..      | ..                    | ..              | ..                  | ..          | 1       | ..           | ..        | ..                      | ..         | ..        | ..          | ..               | ..                   | 1          | ..        | ..               | ..              | ..       | ..        | ..         | ..          | ..                |          |  |  |  |  |
| Servants.....                          | 22            | 1           | ..                      | ..      | ..                    | ..              | 1                   | 1           | 2       | 2            | ..        | 3                       | ..         | 3         | ..          | 2                | 3                    | 1          | 1         | 1                | 1               | 1        | ..        | ..         | 1           | 2                 |          |  |  |  |  |
| Sisters of Mercy.....                  | 2             | ..          | ..                      | 1       | ..                    | ..              | ..                  | ..          | 1       | ..           | ..        | ..                      | ..         | ..        | ..          | ..               | ..                   | ..         | ..        | ..               | ..              | ..       | 1         | ..         | ..          | ..                |          |  |  |  |  |
| Store-keepers.....                     | 12            | ..          | ..                      | ..      | ..                    | ..              | ..                  | ..          | ..      | ..           | ..        | ..                      | ..         | ..        | ..          | ..               | 1                    | ..         | ..        | ..               | 1               | ..       | 1         | ..         | ..          | ..                |          |  |  |  |  |
| Tailoresses.....                       | 1             | ..          | ..                      | ..      | ..                    | ..              | ..                  | ..          | 1       | 2            | ..        | ..                      | ..         | ..        | ..          | ..               | ..                   | ..         | ..        | 1                | ..              | ..       | ..        | ..         | ..          | ..                |          |  |  |  |  |
| Teachers.....                          | 3             | ..          | ..                      | ..      | ..                    | ..              | ..                  | 1           | 2       | ..           | ..        | ..                      | ..         | ..        | ..          | ..               | ..                   | ..         | ..        | ..               | ..              | ..       | ..        | ..         | ..          | ..                |          |  |  |  |  |
| Music.....                             | 1             | ..          | ..                      | ..      | ..                    | ..              | ..                  | ..          | ..      | ..           | ..        | ..                      | ..         | ..        | ..          | ..               | ..                   | ..         | ..        | ..               | ..              | ..       | 1         | ..         | ..          | ..                |          |  |  |  |  |
| Telegraph and Telephone Operators..... | 3             | ..          | ..                      | ..      | ..                    | ..              | ..                  | 1           | 1       | 1            | 1         | ..                      | ..         | ..        | ..          | ..               | ..                   | ..         | ..        | ..               | ..              | ..       | ..        | ..         | ..          | ..                |          |  |  |  |  |
| Waitresses.....                        | 1             | ..          | ..                      | ..      | ..                    | ..              | ..                  | ..          | 1       | ..           | ..        | ..                      | ..         | ..        | 1           | ..               | ..                   | ..         | ..        | ..               | ..              | ..       | ..        | ..         | ..          | ..                |          |  |  |  |  |
| Total.....                             | 117           | 3           | 5                       | 1       | 1                     | 1               | 1                   | 1           | 8       | 45           | 2         | 2                       | 1          | 3         | ..          | ..               | 4                    | 11         | 4         | ..               | 9               | 1        | 2         | 1          | 5           | 3                 | 1        |  |  |  |  |

TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1900.—(RECAPITULATION.)

| OCCUPATIONS.                        | Whole Number. | Accidents. | Alcoholism. | Apoplexy and Paralysis. | Asthma. | Bladder, Diseases of. | Bowel Diseases. | Brain, Diseases of. | Bronchitis. | Cancer. | Consumption. | Diabetes. | Diarrhoea and Dysentery. | Enteritis. | Epilepsy. | Erysipelas. | Fever, Malarial. | Fever, Typhoid, etc. | Heart Diseases. | Influenza. | Insanity. | Kidney Diseases. | Liver Diseases. | Old Age. | Pleurisy. | Pneumonia. | Rheumatism. | Stomach Diseases. | Suicide. |
|-------------------------------------|---------------|------------|-------------|-------------------------|---------|-----------------------|-----------------|---------------------|-------------|---------|--------------|-----------|--------------------------|------------|-----------|-------------|------------------|----------------------|-----------------|------------|-----------|------------------|-----------------|----------|-----------|------------|-------------|-------------------|----------|
| I.<br>TILLERS OF THE SOIL.....      | 184           | 8          | 4           | 21                      | ..      | 2                     | ..              | 3                   | 2           | 13      | 12           | 2         | 5                        | ..         | 1         | ..          | 4                | 4                    | 34              | 8          | ..        | 20               | 3               | 16       | ..        | 21         | ..          | 3                 | 2        |
| II.<br>PROFESSIONAL AND PERSONAL... | 72            | 2          | ..          | 5                       | ..      | 3                     | ..              | 4                   | 2           | ..      | 8            | 4         | ..                       | 1          | ..        | ..          | 1                | 3                    | 10              | 1          | 5         | 14               | 1               | 3        | ..        | 4          | ..          | ..                | 1        |
| III.<br>OPTIONAL ACTIVITY .....     | 190           | 5          | 4           | 27                      | ..      | 3                     | 2               | 4                   | 3           | 5       | 21           | 4         | 1                        | 1          | ..        | 1           | ..               | 4                    | 29              | 7          | 2         | 18               | 9               | 5        | 1         | 23         | 2           | 2                 | 7        |
| IV.<br>OUTDOOR.— <i>Local</i> ..... | 156           | 12         | 1           | 18                      | 1       | 2                     | ..              | 3                   | 2           | 15      | 17           | ..        | 5                        | 2          | 1         | ..          | ..               | 3                    | 16              | 4          | 2         | 16               | 3               | 7        | ..        | 22         | 2           | 1                 | 1        |
| V.<br>INDOOR.— <i>Active</i> .....  | 339           | 29         | 7           | 31                      | 1       | 1                     | 3               | 6                   | 4           | 19      | 60           | 4         | 6                        | 1          | ..        | 1           | 1                | 8                    | 39              | 17         | 4         | 41               | 4               | 6        | ..        | 35         | 1           | 3                 | 7        |

TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1900.—(RECAPITULATION.)—Continued.

| OCCUPATIONS.                            | Whole Number. | Accidents. | Alcoholism. | Apoplexy and Paralysis. | Asthma. | Bladder, Diseases of. | Bowel Diseases. | Brain, Diseases of. | Bronchitis. | Cancer. | Consumption. | Diabetes. | Diarrhoea and Dysentery. | Enteritis. | Epilepsy. | Erysipelas. | Fevers, Malarial. | Fevers, Typhoid, etc. | Heart Diseases. | Influenza. | Insanity. | Kidney Diseases. | Liver, Diseases. | Old Age. | Pleurisy. | Pneumonia. | Rheumatism. | Stomach Diseases. | Suicide. |
|-----------------------------------------|---------------|------------|-------------|-------------------------|---------|-----------------------|-----------------|---------------------|-------------|---------|--------------|-----------|--------------------------|------------|-----------|-------------|-------------------|-----------------------|-----------------|------------|-----------|------------------|------------------|----------|-----------|------------|-------------|-------------------|----------|
| VI.                                     |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                   |                       |                 |            |           |                  |                  |          |           |            |             |                   |          |
| INDOOR.— <i>Activity Restricted</i> ... | 392           | 30         | 11          | 30                      | 1       | 2                     | 1               | 4                   | 6           | 5       | 110          | 2         | 2                        | 3          | ..        | 1           | 1                 | 6                     | 42              | 14         | 5         | 47               | 15               | 3        | 2         | 33         | 3           | 7                 | 6        |
| VII.                                    |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                   |                       |                 |            |           |                  |                  |          |           |            |             |                   |          |
| OCCUPATIONS AT LARGE.....               | 600           | 67         | 14          | 42                      | 2       | 3                     | 3               | 12                  | 26          | 104     | 1            | 6         | 8                        | 1          | 2         | 5           | 14                | 73                    | 16              | 2          | 56        | 8                | 16               | 2        | 88        | 2          | 8           | 7                 |          |
| VIII.                                   |               |            |             |                         |         |                       |                 |                     |             |         |              |           |                          |            |           |             |                   |                       |                 |            |           |                  |                  |          |           |            |             |                   |          |
| EMPLOYMENTS OF WOMEN .....              | 117           | 3          | ..          | 5                       | ..      | 1                     | ..              | 1                   | 1           | 8       | 45           | 2         | 2                        | 1          | 3         | ...         | ..                | 4                     | 11              | 4          | ..        | 9                | 1                | 2        | 1         | 5          | 3           | 1                 | 4        |
| ALL CLASSES... ..                       | 2,050         | 156        | 41          | 179                     | 5       | 17                    | 9               | 37                  | 32          | 91      | 377          | 19        | 27                       | 17         | 5         | 6           | 8                 | 46                    | 254             | 71         | 20        | 231              | 44               | 58       | 6         | 231        | 13          | 25                | 35       |



TABLE XII.—SUPPLEMENTAL DISEASES.—Continued.

| OCCUPATIONS.            | Whole Number. | Abscess of Lung. | Abscess of Mouth. | Abscess of Ovary. | Abscess, Sub-Phrenic. | Addison's Disease. | Anemia, Pernicious. | Aneurism of Aorta. | Angina Pectoris. | Appendicitis. | Carbuncle. | Diphtheria. | Embolism. | Empyema. | Fibroid of Uterus. | Hernia. | Hip Disease. | Hodgkins' Disease. | Hydrocephrosis. | Locomotor Ataxia. | Measles. | Otitis Media. | Prostate Disease. | Puerperal Peritonitis. | Purpura Hemorrhagica. | Salpingitis. | Scarlet Fever. | Smallpox. | Spinal Sclerosis. | Syphilis. | Tumor of Abdomen. |   |
|-------------------------|---------------|------------------|-------------------|-------------------|-----------------------|--------------------|---------------------|--------------------|------------------|---------------|------------|-------------|-----------|----------|--------------------|---------|--------------|--------------------|-----------------|-------------------|----------|---------------|-------------------|------------------------|-----------------------|--------------|----------------|-----------|-------------------|-----------|-------------------|---|
| Machinists.....         | 4             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Merchants.....          | 3             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Milkmen.....            | 1             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Motormen.....           | 2             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Operatives.....         | 2             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Painters.....           | 1             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Peddlers.....           | 1             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Plumbers.....           | 1             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Restaurant Keepers..... | 1             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Rubber-workers.....     | 2             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Shoe-makers.....        | 1             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Silversmiths.....       | 1             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Switchmen.....          | 1             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Teamsters.....          | 2             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Waiters.....            | 1             | 1                | 1                 | 1                 | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 1        | 1                  | 1       | 1            | 1                  | 1               | 1                 | 1        | 1             | 1                 | 1                      | 1                     | 1            | 1              | 1         | 1                 | 1         | 1                 |   |
| Total.....              | 58            | 1                | 1                 | 1                 | 1                     | 2                  | 1                   | 1                  | 9                | 13            | 3          | 2           | 1         | 1        | 1                  | 4       | 1            | 1                  | 1               | 1                 | 1        | 2             | 4                 | 1                      | 1                     | 1            | 1              | 1         | 4                 | 1         | 1                 | 1 |



TABLE XII.—SUPPLEMENTAL DISEASES.—Concluded.

| OCCUPATIONS.             | Whole Number. | Abcess of Lung. | Abcess of Mouth. | Abcess of Ovary. | Abscess, Sub-Phrenic. | Addison's Disease. | Anemia, Pernicious. | Aneurism of Aorta. | Angina Pectoris. | Appendicitis. | Carbuncle. | Diphtheria. | Embolism. | Empyema. | Fibroid of Uterus. | Hernia. | Hip Disease. | Hodgkins' Disease. | Hydronephrosis. | Locomotor Ataxia. | Measles. | Otitis Media. | Prostate Disease. | Puerperal Peritonitis. | Purpura Hemorrhagica. | Saltglands. | Scarlet Fever. | Smallpox. | Spinal Sclerosis. | Syphilis. | Tumor of Abdomen. |
|--------------------------|---------------|-----------------|------------------|------------------|-----------------------|--------------------|---------------------|--------------------|------------------|---------------|------------|-------------|-----------|----------|--------------------|---------|--------------|--------------------|-----------------|-------------------|----------|---------------|-------------------|------------------------|-----------------------|-------------|----------------|-----------|-------------------|-----------|-------------------|
|                          |               | 1               | 1                | 1                | 1                     | 1                  | 3                   | 1                  | 1                | 1             | 1          | 3           | 2         | 1        | 1                  | 2       | 4            | 1                  | 1               | 1                 | 1        | 2             | 2                 | 4                      | 1                     | 1           | 1              | 1         | 1                 | 1         | 1                 |
| FEMALES.                 |               | 11              | 1                | 1                | 1                     | 1                  | 1                   | 1                  | 1                | 1             | 1          | 1           | 1         | 2        | 2                  | 4       | 1            | 1                  | 1               | 1                 | 2        | 2             | 4                 | 1                      | 1                     | 1           | 1              | 1         | 1                 | 1         | 1                 |
| Clerks.....              | 2             |                 |                  |                  |                       |                    |                     |                    |                  |               |            |             |           |          |                    |         |              |                    |                 |                   | 1        |               |                   |                        |                       |             |                |           |                   |           |                   |
| Cooks.....               | 1             |                 |                  |                  |                       |                    |                     |                    |                  |               |            |             |           |          | 1                  |         |              |                    |                 |                   |          |               |                   |                        |                       |             |                |           |                   |           |                   |
| Operatives.....          | 3             |                 |                  | 1                |                       |                    |                     |                    |                  |               |            |             |           |          |                    |         |              |                    |                 |                   | 1        |               |                   |                        |                       |             |                |           |                   |           |                   |
| Servants.....            | 3             |                 |                  |                  |                       |                    |                     |                    |                  |               |            |             |           |          |                    |         |              |                    |                 |                   |          |               |                   |                        |                       |             |                |           |                   |           |                   |
| Teachers.....            | 1             |                 |                  |                  |                       |                    |                     |                    |                  |               |            |             |           |          | 1                  |         |              |                    |                 |                   |          |               |                   |                        |                       |             |                |           |                   |           |                   |
| Telegraph Operators..... | 1             |                 |                  |                  |                       |                    |                     |                    |                  |               |            |             |           |          |                    |         |              |                    |                 |                   |          |               |                   |                        |                       |             |                |           |                   |           |                   |
| Waitresses.....          | 1             |                 |                  |                  |                       |                    |                     |                    |                  |               |            |             |           |          |                    |         |              |                    |                 |                   |          |               |                   |                        |                       |             |                |           |                   |           |                   |
| Total .....              | 69            | 11              | 1                | 1                | 1                     | 1                  | 3                   | 1                  | 1                | 1             | 3          | 2           | 1         | 1        | 2                  | 4       | 1            | 1                  | 1               | 1                 | 2        | 2             | 4                 | 1                      | 1                     | 1           | 1              | 1         | 1                 | 1         | 1                 |
| Grand Total.....         |               |                 |                  |                  |                       |                    |                     |                    |                  |               |            |             |           |          |                    |         |              |                    |                 |                   |          |               |                   |                        |                       |             |                |           |                   |           |                   |

## RESULTS AND OBSERVATIONS.



# GENERAL SUMMARY.

The number of births registered in the State of Rhode Island, during the year 1900, was eleven thousand and eighty-four (11,084); the number of marriages, three thousand nine hundred and thirty-six (3,936); and the number of deaths, eight thousand eight hundred and twenty-three (8,823).

TABLE XIII.

*General Results of Registration for Ten Years, 1854-1863, and for each of the last Thirty-seven Years.*

| Years.         | Whole Number<br>of Births. | Still-born. | Living<br>Births. | Marriages.  | Deaths.     |
|----------------|----------------------------|-------------|-------------------|-------------|-------------|
| 1854-1863..... | 38,042.....                | 1,471.....  | 36,571.....       | 14,943..... | 24,230..... |
| 1864.....      | 3,892.....                 | 138.....    | 3,754.....        | 1,814.....  | 3,360.....  |
| 1865.....      | 3,955.....                 | 177.....    | 3,778.....        | 1,896.....  | 3,405.....  |
| 1866.....      | 4,902.....                 | 172.....    | 4,730.....        | 2,318.....  | 2,970.....  |
| 1867.....      | 5,127.....                 | 163.....    | 4,964.....        | 2,344.....  | 2,889.....  |
| 1868.....      | 5,372.....                 | 212.....    | 5,160.....        | 2,285.....  | 2,912.....  |
| 1869.....      | 5,245.....                 | 220.....    | 5,025.....        | 2,389.....  | 3,382.....  |
| 1870.....      | 5,215.....                 | 234.....    | 4,981.....        | 2,362.....  | 3,238.....  |
| 1871.....      | 5,678.....                 | 223.....    | 5,455.....        | 2,336.....  | 3,311.....  |
| 1872.....      | 6,143.....                 | 202.....    | 5,941.....        | 2,537.....  | 4,247.....  |
| 1873.....      | 6,022.....                 | 228.....    | 5,794.....        | 2,630.....  | 4,403.....  |
| 1874.....      | 6,466.....                 | 277.....    | 6,189.....        | 2,541.....  | 4,220.....  |
| 1875.....      | 6,508.....                 | 246.....    | 6,262.....        | 2,485.....  | 4,317.....  |
| 1876.....      | 6,329.....                 | 221.....    | 6,108.....        | 2,253.....  | 4,116.....  |
| 1877.....      | 6,235.....                 | 242.....    | 5,993.....        | 2,282.....  | 4,450.....  |
| 1878.....      | 6,714.....                 | 248.....    | 6,466.....        | 2,321.....  | 4,441.....  |
| 1879.....      | 6,350.....                 | 216.....    | 6,134.....        | 2,396.....  | 4,472.....  |
| 1880.....      | 6,295.....                 | 192.....    | 6,103.....        | 2,769.....  | 4,829.....  |
| 1881.....      | 6,761.....                 | 261.....    | 6,497.....        | 2,750.....  | 5,016.....  |
| 1882.....      | 6,825.....                 | 253.....    | 6,572.....        | 2,631.....  | 5,074.....  |
| 1883.....      | 7,046.....                 | 253.....    | 6,793.....        | 2,611.....  | 5,282.....  |
| 1884.....      | 7,305.....                 | 272.....    | 7,033.....        | 2,558.....  | 5,111.....  |
| 1885.....      | 7,028.....                 | 271.....    | 6,757.....        | 2,488.....  | 5,389.....  |
| 1886.....      | 7,621.....                 | 293.....    | 7,328.....        | 2,750.....  | 5,849.....  |

TABLE XIII.—Continued.

| Years.    | Whole Number<br>of Births. | Still-born. | Living<br>Births. | Marriages. | Deaths.    |
|-----------|----------------------------|-------------|-------------------|------------|------------|
| 1887..... | 7,668.....                 | 276.....    | 7,392.....        | 2,839..... | 6,340..... |
| 1888..... | 7,840.....                 | 295.....    | 7,545.....        | 3,022..... | 6,594..... |
| 1889..... | 8,220.....                 | 329.....    | 7,891.....        | 3,029..... | 6,259..... |
| 1890..... | 8,550.....                 | 296.....    | 8,254.....        | 3,195..... | 6,934..... |
| 1891..... | 9,426.....                 | 272.....    | 9,154.....        | 3,320..... | 6,620..... |
| 1892..... | 9,270.....                 | 343.....    | 8,927.....        | 3,502..... | 7,396..... |
| 1893..... | 10,048.....                | 412.....    | 9,636.....        | 3,544..... | 7,440..... |
| 1894..... | 9,985.....                 | 392.....    | 9,593.....        | 3,271..... | 7,160..... |
| 1895..... | 10,249.....                | 367.....    | 9,882.....        | 3,497..... | 7,535..... |
| 1896..... | 11,174.....                | 424.....    | 10,750.....       | 3,927..... | 7,504..... |
| 1897..... | 11,218.....                | 423.....    | 10,795.....       | 3,137..... | 7,110..... |
| 1898..... | 11,143.....                | 413.....    | 10,730.....       | 3,278..... | 6,905..... |
| 1899..... | 11,220.....                | 389.....    | 10,831.....       | 3,433..... | 7,458..... |
| 1900..... | 11,458.....                | 374.....    | 11,084.....       | 3,936..... | 8,823..... |

During the period of forty-seven years there were recorded, in Rhode Island, 314,545 births, of which number 11,696 were still-born, and 302,849 were living children.

During the same period there were recorded 116,955 marriages, or 233,910 persons married; and 221,063 deaths.

These results show that in every 26.9 births there was one still-born child, or that in every 1,000 births there were about 37 still-born and 963 living children.

The same results also show that the ratio of whole number of living births to the whole number of persons married, and to the whole number of decedents respectively, during the same period, was as follows:

|                                             | Of<br>persons married. | Of<br>Deaths. |
|---------------------------------------------|------------------------|---------------|
| For every 100 living births there were..... | 77.2.....              | and.....73.0  |

The number of births in 1900 was 253 in excess of the previous year; the number of marriages 503, or 1,006 more persons married; and there was an increase of 1,365 deaths.

For every 100 births there were:

|              | Of<br>persons married. | Of<br>Deaths. |
|--------------|------------------------|---------------|
| In 1896..... | 61.9.....              | and.....69.8  |
| In 1897..... | 58.1.....              | and.....65.9  |
| In 1898..... | 61.1.....              | and.....64.4  |
| In 1899..... | 63.4.....              | and.....68.9  |
| In 1900..... | 71.0.....              | and.....79.6  |

TABLE XIV.

*Comparative Exhibit of Births, Marriages, and Deaths in each Town in Rhode Island, in each of the Six Years 1895-1900, and Excess of Births over the Deaths in 1900.*

| TOWNS<br>AND DIVISIONS OF THE<br>STATE. | BIRTHS. |       |       |       |       |       | MARRIAGES. |       |       |       |       |       | DEATHS. |       |       |       |       | Excess of Births<br>over Deaths. |
|-----------------------------------------|---------|-------|-------|-------|-------|-------|------------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|----------------------------------|
|                                         | 1895.   | 1896. | 1897. | 1898. | 1899. | 1900. | 1895.      | 1896. | 1897. | 1898. | 1899. | 1900. | 1895.   | 1896. | 1897. | 1898. | 1899. |                                  |
|                                         | 1895.   | 1896. | 1897. | 1898. | 1899. | 1900. | 1895.      | 1896. | 1897. | 1898. | 1899. | 1900. | 1895.   | 1896. | 1897. | 1898. | 1899. |                                  |
| Barrington.....                         | 38      | 98    | 35    | 33    | 31    | 22    |            | 7     | 10    | 7     | 11    | 6     | 35      | 19    | 22    | 19    | 21    | 21                               |
| Bristol.....                            | 106     | 150   | 113   | 138   | 141   | 151   |            | 47    | 48    | 40    | 40    | 51    | 135     | 141   | 130   | 109   | 144   | 170                              |
| Warren.....                             | 104     | 105   | 158   | 139   | 149   | 185   |            | 33    | 29    | 37    | 36    | 21    | 86      | 60    | 79    | 84    | 86    | 106                              |
| Bristol County.....                     | 308     | 283   | 336   | 310   | 321   | 361   |            | 87    | 87    | 81    | 87    | 81    | 256     | 220   | 231   | 212   | 251   | 297                              |
| Coventry.....                           | 110     | 165   | 122   | 137   | 148   | 133   |            | 23    | 24    | 17    | 18    | 20    | 100     | 110   | 103   | 81    | 92    | 105                              |
| East Greenwich.....                     | 55      | 76    | 61    | 39    | 49    | 18    |            | 33    | 20    | 31    | 31    | 36    | 67      | 60    | 58    | 53    | 63    | 70                               |
| West Greenwich.....                     | 11      | 8     | 12    | 7     | 8     | 12    |            | 1     | ..... | ..... | ..... | 2     | 13      | 10    | 9     | 9     | 10    | 18                               |
| Warwick.....                            | 581     | 685   | 703   | 798   | 742   | 713   |            | 111   | 114   | 123   | 156   | 181   | 312     | 397   | 366   | 373   | 409   | 515                              |
| Kent County.....                        | 757     | 934   | 898   | 981   | 947   | 876   |            | 168   | 158   | 171   | 205   | 239   | 522     | 583   | 596   | 516   | 574   | 708                              |
| Jamestown.....                          | 8       | 10    | 15    | 20    | 14    | 15    |            | 4     | 3     | 4     | 2     | 2     | 12      | 8     | 17    | 12    | 20    | 19                               |
| Little Compton.....                     | 10      | 19    | 15    | 17    | 31    | 21    |            | 4     | 5     | 11    | 7     | 8     | 17      | 22    | 22    | 17    | 18    | 27                               |
| Middletown.....                         | 32      | 29    | 39    | 25    | 31    | 33    |            | 7     | 4     | 5     | 3     | 4     | 16      | 20    | 11    | 15    | 21    | 22                               |
| Newport City.....                       | 580     | 607   | 556   | 577   | 594   | 599   |            | 184   | 157   | 155   | 150   | 161   | 356     | 380   | 370   | 349   | 391   | 423                              |
| New Shoreham.....                       | 27      | 7     | 16    | 30    | 21    | 13    |            | 13    | 11    | 4     | 10    | 8     | 22      | 23    | 21    | 17    | 23    | 33                               |
| Portsmouth.....                         | 40      | 31    | 33    | 36    | 43    | 37    |            | 15    | 8     | 7     | 6     | 13    | 20      | 29    | 18    | 28    | 38    | 31                               |
| Tiverton.....                           | 70      | 71    | 45    | 35    | 77    | 66    |            | 8     | 16    | 20    | 11    | 20    | 48      | 50    | 49    | 56    | 53    | 52                               |
| Newport County.....                     | 767     | 774   | 719   | 730   | 811   | 781   |            | 235   | 201   | 206   | 189   | 216   | 491     | 532   | 511   | 491   | 561   | 610                              |
|                                         |         |       |       |       |       |       |            |       |       |       |       | 257   |         |       |       |       |       | 171                              |



TABLE XIV.—Continued.

| TOWNS,<br>AND DIVISIONS OF THE<br>STATE. | BIRTHS. |        |        |        |        | MARRIAGES. |       |       |       |       | DEATHS. |       |       |       |       | Excess of Births<br>over Deaths. |       |       |
|------------------------------------------|---------|--------|--------|--------|--------|------------|-------|-------|-------|-------|---------|-------|-------|-------|-------|----------------------------------|-------|-------|
|                                          | 1895.   | 1896.  | 1897.  | 1898.  | 1899.  | 1900.      | 1895. | 1896. | 1897. | 1898. | 1899.   | 1900. |       |       |       |                                  |       |       |
|                                          |         |        |        |        |        |            |       |       |       |       |         |       |       |       |       |                                  |       |       |
| Burrillville.....                        | 121     | 126    | 131    | 167    | 160    | 131        | 41    | 23    | 35    | 32    | 28      | 35    | 107   | 99    | 92    | 109                              | 111   | 26    |
| CENTRAL FALLS.....                       | 287     | 576    | 511    | 563    | 556    | 610        | 131   | 125   | 119   | 148   | 138     | 161   | 311   | 327   | 223   | 254                              | 332   | 258   |
| Cranston*.....                           | 220     | 270    | 292    | 227    | 298    | 280        | 52    | 61    | 50    | 69    | 64      | 66    | 148   | 159   | 183   | 155                              | 188   | 92    |
| Cumberland.....                          | 248     | 295    | 297    | 238    | 254    | 286        | 68    | 63    | 51    | 62    | 48      | 60    | 196   | 168   | 166   | 146                              | 151   | 82    |
| East Providence.....                     | 208     | 259    | 297    | 232    | 295    | 252        | 75    | 56    | 60    | 74    | 64      | 73    | 160   | 156   | 163   | 141                              | 211   | 41    |
| Foster.....                              | 19      | 24     | 22     | 21     | 22     | 15         | 10    | 12    | 13    | 15    | 5       | 10    | 24    | 17    | 28    | 32                               | 19    | —9    |
| Glocester.....                           | 30      | 29     | 34     | 33     | 24     | 23         | 9     | 9     | 9     | 7     | 9       | 11    | 33    | 36    | 30    | 27                               | 36    | —4    |
| Johnston.....                            | 301     | 280    | 364    | 197    | 138    | 149        | 46    | 42    | 45    | 17    | 23      | 12    | 210   | 222   | 204   | 130                              | 78    | 79    |
| Lincoln.....                             | 223     | 262    | 280    | 221    | 273    | 254        | 86    | 63    | 50    | 63    | 33      | 57    | 183   | 123   | 110   | 115                              | 103   | 106   |
| North Providence.....                    | 69      | 63     | 62     | 67     | 55     | 59         | 3     | 3     | 4     | 4     | 1       | 6     | 35    | 31    | 38    | 35                               | 32    | 17    |
| North Smithfield.....                    | 62      | 70     | 82     | 81     | 58     | 55         | 18    | 10    | 25    | 19    | 19      | 19    | 49    | 54    | 52    | 52                               | 39    | 16    |
| PAWTECKET.....                           | 925     | 938    | 988    | 1,067  | 970    | 1,023      | 345   | 353   | 291   | 270   | 318     | 418   | 655   | 616   | 595   | 543                              | 625   | 333   |
| PROVIDENCE CITY.....                     | 3,998   | 4,128  | 4,119  | 4,256  | 4,263  | 4,503      | 1,617 | 1,538 | 1,358 | 1,566 | 1,670   | 1,910 | 3,089 | 2,957 | 2,811 | 2,929                            | 3,472 | 825   |
| Scituate.....                            | 63      | 58     | 86     | 58     | 65     | 56         | 26    | 30    | 24    | 25    | 29      | 18    | 71    | 69    | 68    | 53                               | 69    | —13   |
| Smithfield.....                          | 41      | 54     | 50     | 38     | 45     | 33         | 17    | 17    | 16    | 11    | 17      | 19    | 24    | 45    | 41    | 37                               | 54    | —1    |
| Woonsocket.....                          | 793     | 894    | 861    | 808    | 842    | 960        | 250   | 244   | 223   | 228   | 262     | 283   | 447   | 529   | 465   | 533                              | 556   | 404   |
| PROVIDENCE COUNTY.....                   | 7,608   | 8,269  | 8,375  | 8,264  | 8,318  | 8,661      | 1,794 | 2,069 | 2,473 | 2,610 | 2,728   | 3,148 | 5,742 | 5,608 | 5,269 | 5,144                            | 5,584 | 2,146 |
| Charlestown.....                         | 13      | 17     | 10     | 16     | 21     | 16         | 9     | 5     | 7     | 7     | 11      | 3     | 23    | 22    | 12    | 15                               | 10    | —1    |
| Exeter.....                              | 10      | 10     | 7      | 10     | 9      | 8          | 9     | 8     | 8     | 15    | 9       | 9     | 19    | 15    | 10    | 13                               | 11    | —10   |
| Hopkinton.....                           | 44      | 45     | 52     | 47     | 55     | 48         | 33    | 33    | 28    | 25    | 15      | 28    | 31    | 47    | 46    | 49                               | 50    | 4     |
| Narragansett.....                        | 23      | 38     | 28     | 23     | 16     | 20         | 68    | 14    | 10    | 4     | 4       | 10    | 23    | 20    | 20    | 13                               | 21    | 0     |
| North Kingstown.....                     | 74      | 81     | 84     | 74     | 50     | 68         | 25    | 30    | 23    | 26    | 28      | 26    | 76    | 51    | 60    | 63                               | 62    | 72    |
| South Kingstown.....                     | 104     | 100    | 93     | 113    | 90     | 74         | 37    | 43    | 43    | 31    | 33      | 43    | 71    | 94    | 71    | 82                               | 83    | —4    |
| Richmond.....                            | 25      | 19     | 25     | 17     | 20     | 25         | 5     | 10    | 8     | 8     | 6       | 4     | 21    | 18    | 27    | 24                               | 30    | 28    |
| Westerly.....                            | 149     | 180    | 168    | 145    | 170    | 143        | 89    | 66    | 76    | 71    | 63      | 88    | 107   | 115   | 125   | 109                              | 93    | —2    |
| WASHINGTON COUNTY...                     | 442     | 490    | 467    | 445    | 431    | 402        | 213   | 209   | 203   | 187   | 169     | 211   | 371   | 382   | 371   | 369                              | 360   | 439   |
| STATE INSTITUTIONS.....                  | .....   | .....  | .....  | .....  | .....  | .....      | ..... | ..... | ..... | ..... | .....   | ..... | 153   | 179   | 192   | 170                              | 175   | ..... |
| WHOLE STATE.....                         | 9,822   | 10,750 | 10,735 | 10,730 | 10,831 | 11,084     | 3,496 | 3,327 | 3,137 | 3,278 | 3,433   | 3,936 | 7,535 | 7,504 | 7,110 | 6,905                            | 7,458 | 2,261 |

\* Exclusive of deaths in State Institutions.

The varying numbers of the events of births, marriages, and deaths occurring in the different towns during each of the six years ending December 31, 1900, are very concisely presented in Table XIV, and a ready means is thereby afforded of comparing and studying the changes in the vital movements of the people in the different precincts during those years.

The actual increase of population in the State, for the ten years 1890 to 1900, was 83,050, or 24.0 per cent., or an annual average of two and four-tenths per cent. The increase by immigration must have been nearly twice as large as the natural increase.

TABLE XV.

*Births, Marriages, and Deaths in Rhode Island, in 1900, with the number and ratio of each in every 1,000 of the population of each town, and the ratio of excess of the births over the deaths in every 1,000 of the population.*

| TOWNS<br>AND DIVISIONS OF THE STATE. | Population in 1900. | Births. | Births per 1,000 of population. | Marriages. | Persons married per 1,000 of population. | Deaths. | Deaths per 1,000 of population. | Excess of Births per 1,000. |
|--------------------------------------|---------------------|---------|---------------------------------|------------|------------------------------------------|---------|---------------------------------|-----------------------------|
| Barrington.....                      | 1,135               | 22      | 19.4                            | 11         | 19.3                                     | 21      | 18.5                            | 0.9                         |
| Bristol.....                         | 6,901               | 154     | 22.3                            | 37         | 10.7                                     | 170     | 24.6                            | -2.3                        |
| Warren.....                          | 5,108               | 185     | 36.2                            | 37         | 14.5                                     | 106     | 20.7                            | 15.5                        |
| BRISTOL COUNTY.....                  | 13,144              | 361     | 27.5                            | 85         | 12.9                                     | 297     | 22.6                            | 4.9                         |
| Coventry.....                        | 5,279               | 133     | 25.2                            | 26         | 9.9                                      | 105     | 19.9                            | 5.3                         |
| East Greenwich.....                  | 2,775               | 18      | 6.5                             | 17         | 12.3                                     | 70      | 25.2                            | -18.7                       |
| West Greenwich.....                  | 606                 | 12      | 19.8                            | 1          | 3.3                                      | 18      | 29.7                            | -9.9                        |
| Warwick.....                         | 21,316              | 713     | 33.4                            | 191        | 17.9                                     | 515     | 24.2                            | 9.2                         |
| KENT COUNTY.....                     | 20,976              | 876     | 29.2                            | 235        | 15.7                                     | 708     | 23.6                            | 5.6                         |
| Jamestown.....                       | 1,498               | 15      | 10.0                            | 3          | 4.0                                      | 19      | 12.7                            | -2.7                        |
| Little Compton.....                  | 1,132               | 21      | 18.5                            | 5          | 8.8                                      | 27      | 23.9                            | -5.4                        |
| Middletown.....                      | 1,457               | 33      | 22.6                            | 1          | 1.4                                      | 22      | 15.1                            | 7.5                         |
| NEWPORT CITY.....                    | 22,034              | 599     | 27.2                            | 206        | 18.7                                     | 423     | 19.2                            | 8.0                         |
| New Shoreham.....                    | 1,396               | 13      | 9.3                             | 10         | 14.3                                     | 33      | 23.6                            | -14.3                       |
| Portsmouth.....                      | 2,105               | 37      | 17.6                            | 14         | 13.3                                     | 34      | 16.1                            | 1.5                         |
| Tiverton.....                        | 2,977               | 66      | 22.2                            | 18         | 12.1                                     | 52      | 17.5                            | 4.7                         |
| NEWPORT COUNTY.....                  | 32,599              | 784     | 24.0                            | 257        | 15.8                                     | 610     | 18.7                            | 5.3                         |
| Burrillville.....                    | 6,317               | 131     | 20.7                            | 35         | 11.1                                     | 111     | 17.6                            | 3.1                         |
| CENTRAL FALLS.....                   | 18,167              | 610     | 33.6                            | 161        | 17.7                                     | 352     | 19.4                            | 14.2                        |
| Cranston.....                        | 11,114              | 280     | 25.2                            | 66         | 11.9                                     | 188     | 16.9                            | 8.3                         |
| Cumberland.....                      | 8,925               | 236     | 26.4                            | 60         | 13.4                                     | 154     | 17.3                            | 9.1                         |
| East Providence.....                 | 12,128              | 252     | 20.8                            | 73         | 12.0                                     | 211     | 17.4                            | 3.4                         |
| Foster.....                          | 1,151               | 15      | 13.0                            | 10         | 17.3                                     | 19      | 16.5                            | -2.5                        |
| Glocester.....                       | 1,462               | 23      | 15.7                            | 11         | 15.0                                     | 32      | 21.9                            | -6.2                        |
| Johnston.....                        | 4,305               | 149     | 34.6                            | 12         | 5.6                                      | 70      | 16.3                            | 18.3                        |
| Lincoln.....                         | 8,937               | 254     | 28.4                            | 57         | 12.8                                     | 148     | 16.6                            | 11.8                        |
| North Providence.....                | 3,016               | 59      | 19.6                            | 6          | 4.0                                      | 42      | 13.9                            | 5.7                         |
| North Smithfield.....                | 2,432               | 55      | 22.7                            | 19         | 15.7                                     | 39      | 16.1                            | 6.6                         |
| PAWTUCKET.....                       | 29,231              | 1,025   | 26.1                            | 418        | 21.3                                     | 792     | 20.2                            | 5.9                         |
| PROVIDENCE CITY.....                 | 175,597             | 4,503   | 25.6                            | 1,900      | 21.6                                     | 3,678   | 20.9                            | 4.7                         |
| Scituate.....                        | 3,361               | 56      | 16.7                            | 18         | 10.7                                     | 69      | 20.5                            | -3.8                        |
| Smithfield.....                      | 2,107               | 53      | 25.1                            | 19         | 18.0                                     | 54      | 25.6                            | -0.5                        |
| WOONSOCKET.....                      | 28,294              | 960     | 34.0                            | 283        | 20.0                                     | 556     | 19.7                            | 14.3                        |
| PROVIDENCE COUNTY.....               | 326,454             | 8,661   | 26.5                            | 3,148      | 19.3                                     | 6,515   | 19.9                            | 6.6                         |
| Charlestown.....                     | 975                 | 16      | 16.4                            | 3          | 6.2                                      | 17      | 17.4                            | -1.0                        |
| Exeter.....                          | 841                 | 8       | 9.5                             | 9          | 21.4                                     | 18      | 21.3                            | -11.8                       |
| Hopkinton.....                       | 2,602               | 48      | 18.4                            | 28         | 21.5                                     | 44      | 16.9                            | 1.5                         |
| Narragansett District.....           | 1,523               | 20      | 13.1                            | 10         | 13.1                                     | 20      | 13.1                            | 0.0                         |
| North Kingstown.....                 | 4,191               | 68      | 16.2                            | 26         | 12.4                                     | 72      | 17.2                            | -1.0                        |
| South Kingstown.....                 | 4,972               | 74      | 14.9                            | 43         | 17.5                                     | 99      | 19.9                            | -5.0                        |
| Richmond.....                        | 1,506               | 25      | 16.6                            | 4          | 5.3                                      | 28      | 18.6                            | -2.0                        |
| Westerly.....                        | 7,511               | 143     | 19.0                            | 88         | 23.3                                     | 141     | 18.7                            | 0.3                         |
| WASHINGTON COUNTY.....               | 21,154              | 402     | 16.6                            | 211        | 17.5                                     | 439     | 18.2                            | -1.6                        |
| STATE INSTITUTIONS.....              | 2,229               | .....   | .....                           | .....      | .....                                    | 254     | 113.9                           | .....                       |
| WHOLE STATE.....                     | 428,556             | 11,084  | 25.9                            | 3,936      | 18.4                                     | 8,823   | 20.6                            | 5.3                         |

\* Not including State Institutions.

In Table XV, on the preceding page, may be found the varying proportions of the number of births, marriages, and deaths, to every 1,000 of the population in the various towns and cities in the State, as they occurred in 1900.

## BIRTHS.

### *Proportion to Population.*

In regard to births, the extreme range of proportion to population was from 6.5 in every 1,000, in East Greenwich, to 36.2 in Warren. Following Warren, in the line of largest proportion, are Johnston, with 34.6; Woonsocket, with 34.0; and Central Falls, with 33.6. Following East Greenwich in the line of smallest proportion of births to population, are New Shoreham, with 9.3 in every 1,000; Exeter, with 9.5; and Jamestown, with 10.0.

The proportions of births to population, in all the counties entire, and in the cities of Central Falls, Newport, Pawtucket, Providence, Woonsocket, and the whole State, during the last seven years, are as follows:

#### BIRTHS TO EVERY 1,000 PERSONS.

|                        | 1900 | 1899 | 1898 | 1897 | 1896 | 1895 | 1894 |
|------------------------|------|------|------|------|------|------|------|
| Bristol County.....    | 27.5 | 22.7 | 22.0 | 27.1 | 23.0 | 25.2 | 19.7 |
| Kent County .....      | 29.2 | 27.8 | 29.6 | 28.0 | 30.1 | 25.2 | 23.2 |
| Newport County.....    | 24.0 | 34.2 | 22.9 | 22.8 | 24.8 | 21.8 | 25.2 |
| Newport City.....      | 27.2 | 26.7 | 24.1 | 25.4 | 27.9 | 26.9 | 27.8 |
| Providence County..... | 26.5 | 26.4 | 26.8 | 27.9 | 28.3 | 26.8 | 28.2 |
| Central Falls.....     | 33.6 | 31.0 | 32.2 | 30.2 | 35.2 |      |      |
| Pawtucket.....         | 26.1 | 26.1 | 29.5 | 28.3 | 27.5 | 28.4 | 24.7 |
| Providence City.....   | 25.6 | 25.9 | 27.6 | 27.2 | 27.8 | 27.5 | 28.9 |
| Woonsocket .....       | 34.0 | 29.5 | 29.3 | 32.5 | 33.9 | 32.4 | 32.1 |
| Washington County..... | 16.6 | 16.8 | 17.5 | 18.5 | 19.6 | 17.9 | 19.4 |
| Whole State .....      | 25.9 | 25.6 | 25.9 | 26.8 | 27.3 | 25.7 | 26.6 |

## PERSONS MARRIED.

### *Proportion to Population.*

The proportion to the population, of persons married, can be more correctly shown in counties, or in cities and aggregates of towns, than in single towns.

The following summary will present the proportions in the manner suggested, for the last seven years:

## PERSONS MARRIED IN EVERY 1,000.

|                        | 1900 | 1899 | 1898 | 1897 | 1896 | 1895 | 1894 |
|------------------------|------|------|------|------|------|------|------|
| Bristol County.....    | 12.9 | 11.3 | 12.3 | 13.5 | 14.0 | 14.2 | 18.5 |
| Kent County.....       | 15.7 | 14.0 | 12.4 | 10.7 | 10.2 | 11.2 | 13.5 |
| Newport County.....    | 15.8 | 13.5 | 11.9 | 13.1 | 13.1 | 15.2 | 14.5 |
| Newport City.....      | 18.7 | 14.5 | 13.6 | 14.1 | 14.4 | 17.1 | 15.7 |
| Providence County..... | 19.3 | 17.3 | 17.0 | 16.5 | 18.2 | 19.6 | 18.5 |
| Central Falls.....     | 17.7 | 15.4 | 16.9 | 14.1 | 15.3 |      |      |
| Pawtucket.....         | 21.3 | 17.1 | 14.9 | 16.7 | 20.9 | 21.2 | 18.8 |
| Providence City.....   | 21.6 | 20.1 | 20.3 | 27.2 | 21.4 | 22.2 | 21.1 |
| Woonsocket.....        | 20.0 | 18.3 | 16.5 | 32.5 | 16.8 | 20.4 | 15.0 |
| Washington County..... | 17.5 | 13.2 | 14.7 | 18.5 | 16.7 | 17.2 | 14.4 |
| Whole State.....       | 18.4 | 16.2 | 15.8 | 26.8 | 17.0 | 18.2 | 17.4 |

## DEATHS.

*Proportion to Population.*

The number of deaths, in proportion to the living population, varies considerably from year to year in the different towns. The smaller the towns the greater generally is the annual variation.

The highest rate occurred in West Greenwich, that is, 29.7 in every 1,000 of the population; followed by Smithfield, 25.6, and East Greenwich, 25.2.

The lowest death rate was in Jamestown, that is 12.7 in every 1,000 of the population; followed by District of Narragansett with 13.1, and North Providence with 13.9.

The following summary will give the ratios of mortality to the population in the cities and counties of the State, during the seven years ending December 31, 1900:

## DEATHS IN EVERY 1,000 OF POPULATION.

|                        | 1900 | 1899 | 1898 | 1897 | 1896 | 1895 | 1894 |
|------------------------|------|------|------|------|------|------|------|
| Bristol County.....    | 22.6 | 17.6 | 15.0 | 18.6 | 17.9 | 20.9 | 16.5 |
| Kent County.....       | 23.6 | 16.8 | 15.6 | 16.7 | 18.8 | 17.4 | 19.8 |
| Newport County.....    | 18.7 | 17.6 | 15.5 | 16.2 | 17.0 | 15.9 | 16.9 |
| Newport City.....      | 19.2 | 17.6 | 15.8 | 16.9 | 17.5 | 16.5 | 17.7 |
| Central Falls.....     | 19.4 | 14.1 | 12.5 | 13.2 | 19.9 |      |      |
| Pawtucket.....         | 20.2 | 14.4 | 15.0 | 17.7 | 18.3 | 20.1 | 18.7 |
| Providence City.....   | 20.9 | 19.1 | 12.5 | 18.6 | 19.9 | 21.2 | 20.3 |
| Woonsocket.....        | 19.7 | 18.6 | 16.6 | 17.5 | 20.8 | 18.3 | 17.6 |
| Providence County..... | 19.9 | 17.6 | 16.7 | 17.6 | 19.2 | 20.1 | 19.1 |
| Washington County..... | 18.2 | 14.1 | 14.5 | 14.7 | 15.3 | 15.0 | 16.4 |
| Whole State.....       | 20.6 | 17.6 | 16.7 | 17.6 | 19.1 | 19.6 | 19.1 |

The proportion of deaths to the living population in 1900 was smaller than the annual average of the previous six years in all the counties and cities.

TABLE XVI.

*Proportion of Births, Marriages, and Deaths to the Population, in the Whole State, in each of the last thirty-two years.*

| YEARS.    | Popu-<br>lation. | BIRTHS. |                                                 | MARRIAGES. |                                                                 | DEATHS. |                                                 |                                                        |
|-----------|------------------|---------|-------------------------------------------------|------------|-----------------------------------------------------------------|---------|-------------------------------------------------|--------------------------------------------------------|
|           |                  | Number. | Of popu-<br>lation,<br>one<br>birth in<br>every | Number.    | Of popu-<br>lation,<br>one per-<br>son mar-<br>ried in<br>every | Number. | Of popu-<br>lation,<br>one<br>death in<br>every | Deaths<br>in every<br>1,000 of<br>the popu-<br>lation. |
| 1869..... | 211,380          | 5,245   | 40.3                                            | 2,289      | 46.2                                                            | 3,382   | 62.5                                            | 16.0                                                   |
| 1870..... | 218,555          | 5,215   | 41.9                                            | 2,362      | 46.2                                                            | 3,238   | 67.5                                            | 14.8                                                   |
| 1871..... | 225,968          | 5,676   | 39.8                                            | 2,336      | 48.4                                                            | 3,344   | 67.6                                            | 14.8                                                   |
| 1872..... | 233,637          | 6,113   | 38.0                                            | 2,537      | 46.0                                                            | 4,247   | 55.0                                            | 18.2                                                   |
| 1873..... | 241,561          | 6,032   | 40.1                                            | 2,630      | 45.9                                                            | 4,403   | 54.8                                            | 18.2                                                   |
| 1874..... | 249,765          | 6,466   | 38.6                                            | 2,541      | 49.1                                                            | 4,220   | 50.0                                            | 16.9                                                   |
| 1875..... | 258,239          | 6,508   | 39.7                                            | 2,485      | 52.0                                                            | 4,317   | 59.8                                            | 16.7                                                   |
| 1876..... | 262,513          | 6,329   | 41.5                                            | 2,253      | 58.3                                                            | 4,116   | 63.8                                            | 15.7                                                   |
| 1877..... | 266,850          | 6,235   | 42.8                                            | 2,282      | 58.4                                                            | 4,450   | 60.0                                            | 16.7                                                   |
| 1878..... | 271,269          | 6,714   | 40.4                                            | 2,324      | 58.4                                                            | 4,441   | 61.1                                            | 16.4                                                   |
| 1879..... | 275,753          | 6,350   | 43.4                                            | 2,396      | 57.5                                                            | 4,472   | 61.7                                            | 16.2                                                   |
| 1880..... | 280,319          | 6,295   | 44.5                                            | 2,769      | 50.6                                                            | 4,829   | 58.0                                            | 17.2                                                   |
| 1881..... | 284,960          | 6,761   | 42.1                                            | 2,750      | 51.8                                                            | 5,016   | 56.8                                            | 17.6                                                   |
| 1882..... | 289,667          | 6,825   | 42.4                                            | 2,634      | 55.0                                                            | 5,074   | 57.1                                            | 17.5                                                   |
| 1883..... | 294,460          | 7,046   | 41.8                                            | 2,611      | 56.4                                                            | 5,282   | 55.7                                            | 17.9                                                   |
| 1884..... | 299,329          | 7,305   | 41.0                                            | 2,558      | 58.5                                                            | 5,141   | 58.2                                            | 17.2                                                   |
| 1885..... | 304,281          | 7,028   | 43.3                                            | 2,488      | 61.2                                                            | 5,389   | 56.5                                            | 17.7                                                   |
| 1886..... | 311,507          | 7,621   | 40.9                                            | 2,750      | 56.6                                                            | 5,848   | 53.3                                            | 18.8                                                   |
| 1887..... | 318,907          | 7,668   | 41.6                                            | 2,839      | 56.2                                                            | 6,340   | 50.3                                            | 19.9                                                   |
| 1888..... | 326,477          | 7,810   | 41.6                                            | 3,022      | 51.0                                                            | 6,594   | 49.5                                            | 20.2                                                   |
| 1889..... | 331,223          | 8,220   | 40.7                                            | 3,029      | 55.2                                                            | 6,259   | 53.4                                            | 18.7                                                   |
| 1890..... | 342,169          | 8,550   | 40.0                                            | 3,195      | 53.5                                                            | 6,934   | 49.3                                            | 20.3                                                   |
| 1891..... | 350,292          | 9,426   | 37.2                                            | 3,320      | 52.8                                                            | 6,620   | 52.9                                            | 18.9                                                   |
| 1892..... | 358,608          | 9,270   | 38.7                                            | 3,502      | 51.2                                                            | 7,396   | 48.5                                            | 20.6                                                   |
| 1893..... | 367,125          | 10,018  | 36.5                                            | 3,544      | 51.9                                                            | 7,440   | 49.3                                            | 20.2                                                   |
| 1894..... | 375,836          | 9,985   | 37.6                                            | 3,271      | 57.4                                                            | 7,160   | 52.5                                            | 19.1                                                   |
| 1895..... | 384,758          | 9,882   | 38.9                                            | 3,497      | 55.0                                                            | 7,535   | 51.1                                            | 19.6                                                   |
| 1896..... | 393,891          | 10,750  | 36.6                                            | 3,327      | 59.2                                                            | 7,504   | 52.5                                            | 19.1                                                   |
| 1897..... | 403,245          | 10,795  | 37.4                                            | 3,137      | 61.3                                                            | 7,110   | 56.7                                            | 17.6                                                   |
| 1898..... | 414,413          | 10,730  | 38.6                                            | 3,278      | 65.2                                                            | 6,905   | 60.0                                            | 16.7                                                   |
| 1899..... | 422,620          | 10,831  | 39.0                                            | 3,433      | 61.5                                                            | 7,458   | 56.7                                            | 17.6                                                   |
| 1900..... | 428,556          | 11,081  | 38.7                                            | 3,936      | 51.1                                                            | 8,823   | 48.6                                            | 20.6                                                   |



During the ten years 1871-1880, the average annual birth rate was one birth to every 39.7 of the population, or 25.2 births in every 1,000; during the ten years 1881-1890, the average birth rate was one birth in every 41.0 of the population, or 24.3 in every 1,000, a falling off of a proportion of nearly one birth in every 1,000 of the population.

From 1891 to 1900 the average annual birth rate was one birth in every 37.9 of the population, or 26.2 in every 1,000.

During the period of ten years 1871-1880, the average annual death rate was one in every 58.4 of the population, or 17.2 in every 1,000, according to the returns. During the ten years 1881-1890, the average annual death rate was one in every 53.4 of the population, or 18.8 in every 1,000 of the living. From 1891 to 1900 the average annual death rate was one in every 52.9 of the population, or 19.0 in every 1,000 of the living.

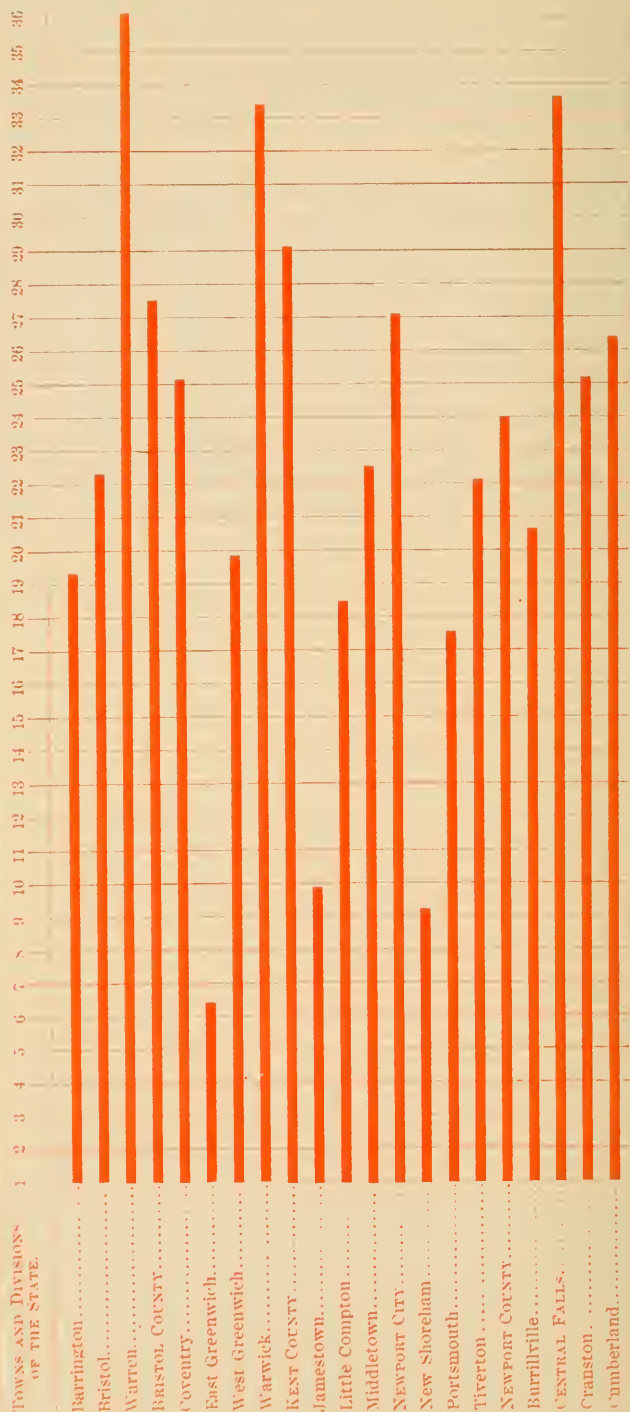
It must be remembered, however, that the returns during the last ten years have been more complete than in previous years.

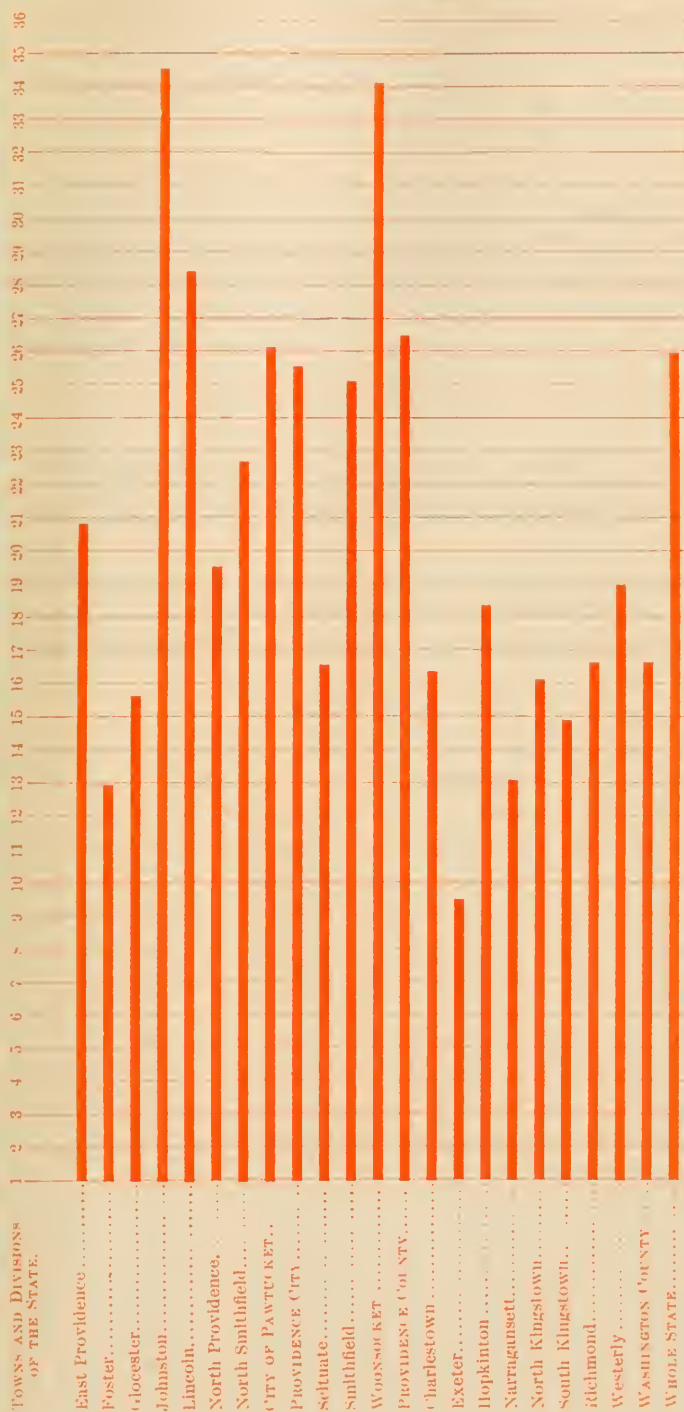


## BIRTH RATES.

Diagram 1.—Showing the Number of Births in every 1,000 of the Population, in each Town and each County in the State, during the Year 1900, computed upon the Population by the Census of 1900.

For explanation see foot-note on next page.





The figures at the top of the perpendicular lines indicate, in whole numbers, the number of births during the year in every 1,000 persons. The spaces are fractional parts of one. For instance, the heavy horizontal line against Barrington, at the top of this diagram, reaches across about four-tenths of the space between the perpendicular lines of 18 and 19. It shows the birth rate of Barrington, in 1900, was nineteen and four-tenths of the population.



# BIRTHS, 1900.

The general statistics of births in Rhode Island, during the year 1900, derived from the returns sent to the office of the State Registrar, may be found on pages 2 to 8, inclusive, in Tables I, II, and III.

The whole number reported is 11,084, as before stated, and is 253 more than the number in 1899.

## SEX OF THE CHILDREN.

Of the 11,084 children whose births were registered in 1900 there were 5,625 males and 5,459 females. This gives 103.0 males to each 100 females, or 507.5 males and 492.5 females in each 1,000 children.

The following Table shows the number and sex, and the proportions of each sex, of the children born in Rhode Island, during the ten years 1854-1863, and in each of the last thirty-seven years :

TABLE XVII.

| Years.         | Males.      | Females.    | Males to each<br>100 |         | Per 1,000<br>Births. |           |
|----------------|-------------|-------------|----------------------|---------|----------------------|-----------|
|                |             |             | Females.             |         | Males.               | Females.  |
| 1854-1863..... | 19,386..... | 18,686..... | 103.6,               | or..... | 508.8                | and 491.2 |
| 1864.....      | 1,949.....  | 1,942.....  | 100.3,               | or..... | 500.9                | and 499.1 |
| 1865.....      | 2,096.....  | 1,857.....  | 112.9,               | or..... | 539.2                | and 469.8 |
| 1866.....      | 2,546.....  | 2,356.....  | 108.0,               | or..... | 519.1                | and 480.6 |
| 1867.....      | 2,665.....  | 2,464.....  | 107.0,               | or..... | 518.7                | and 481.3 |
| 1868.....      | 2,745.....  | 2,627.....  | 104.5,               | or..... | 511.0                | and 489.0 |
| 1869.....      | 2,685.....  | 2,560.....  | 104.9,               | or..... | 511.9                | and 488.1 |
| 1870.....      | 2,679.....  | 2,536.....  | 105.6,               | or..... | 513.7                | and 486.3 |
| 1871.....      | 2,878.....  | 2,800.....  | 102.8,               | or..... | 506.9                | and 493.1 |
| 1872.....      | 3,085.....  | 3,058.....  | 100.8,               | or..... | 502.2                | and 497.8 |
| 1873.....      | 3,135.....  | 2,887.....  | 108.6,               | or..... | 520.6                | and 579.4 |
| 1874.....      | 3,311.....  | 3,155.....  | 104.9,               | or..... | 512.1                | and 487.9 |
| 1875.....      | 3,362.....  | 3,146.....  | 106.9,               | or..... | 516.6                | and 483.4 |
| 1876.....      | 3,291.....  | 3,038.....  | 108.3,               | or..... | 520.0                | and 480.0 |
| 1877.....      | 3,163.....  | 3,072.....  | 103.0,               | or..... | 507.3                | and 492.7 |
| 1878.....      | 3,402.....  | 3,312.....  | 102.7,               | or..... | 506.7                | and 493.3 |
| 1879.....      | 3,259.....  | 3,091.....  | 102.1,               | or..... | 513.2                | and 486.8 |
| 1880.....      | 3,241.....  | 3,054.....  | 106.8,               | or..... | 511.8                | and 488.2 |
| 1881.....      | 3,498.....  | 2,263.....  | 107.2,               | or..... | 517.3                | and 482.7 |
| 1882.....      | 3,509.....  | 3,316.....  | 105.8,               | or..... | 514.1                | and 485.9 |
| 1883.....      | 3,548.....  | 3,498.....  | 101.4,               | or..... | 503.5                | and 496.5 |
| 1884.....      | 3,713.....  | 3,592.....  | 103.4,               | or..... | 508.3                | and 491.7 |
| 1885.....      | 3,591.....  | 3,437.....  | 101.4,               | or..... | 510.3                | and 489.7 |
| 1886.....      | 3,837.....  | 3,724.....  | 104.6,               | or..... | 511.3                | and 488.7 |
| 1887.....      | 3,968.....  | 3,700.....  | 107.2,               | or..... | 517.5                | and 482.5 |



TABLE XVII.—Continued.

| Years.    | Males.     | Females.   | Males to each<br>100 |         | Per 1,000<br>Births. |           |
|-----------|------------|------------|----------------------|---------|----------------------|-----------|
|           |            |            | Females.             |         | Males.               | Females.  |
| 1888..... | 4,023..... | 3,817..... | 105.4.               | or..... | 513.1                | and 486.0 |
| 1889..... | 4,193..... | 4,027..... | 104.1.               | or..... | 510.0                | and 490.0 |
| 1890..... | 4,351..... | 4,199..... | 103.5.               | or..... | 508.8                | and 491.2 |
| 1891..... | 4,926..... | 4,500..... | 199.5.               | or..... | 522.6                | and 477.4 |
| 1892..... | 4,765..... | 4,505..... | 105.8.               | or..... | 514.1                | and 485.9 |
| 1893..... | 5,105..... | 4,943..... | 103.3.               | or..... | 508.1                | and 491.9 |
| 1894..... | 5,129..... | 4,856..... | 105.6.               | or..... | 513.7                | and 486.3 |
| 1895..... | 5,136..... | 4,746..... | 108.2.               | or..... | 519.7                | and 480.3 |
| 1896..... | 5,461..... | 5,389..... | 103.3.               | or..... | 508.0                | and 492.0 |
| 1897..... | 5,493..... | 5,302..... | 103.6.               | or..... | 508.8                | and 491.2 |
| 1898..... | 5,443..... | 5,287..... | 102.9.               | or..... | 507.3                | and 492.7 |
| 1899..... | 5,591..... | 5,240..... | 106.7.               | or..... | 516.2                | and 483.8 |
| 1900..... | 5,625..... | 5,459..... | 103.0.               | or..... | 507.5                | and 492.5 |

The average proportion for forty-seven years is 104.8 males to every 100 females. At the end of five years from birth the number of each sex is about equal, the males having a larger mortality during that period.

#### PROPORTION OF THE SEXES. *Localities.*

In Table II, on pages 6 and 7, will be found the number of children born in the different divisions of the State during the year 1900, together with the number of each sex.

The following Table will give more concisely the whole number of children born, arranged according to sex and locality, and the proportion of male children to every 100 female children :

TABLE XVIII.

| BIRTHS, 1900.             | Bristol<br>County. | Kent<br>County. | Newport<br>County. | Providence<br>County<br>Towns. | Washington<br>County. | Newport<br>City. | Central Falls | Pawtucket. | Providence<br>City. | Woonsocket. | Whole State. |
|---------------------------|--------------------|-----------------|--------------------|--------------------------------|-----------------------|------------------|---------------|------------|---------------------|-------------|--------------|
| Males.....                | 193                | 410             | 97                 | 806                            | 203                   | 319              | 295           | 502        | 2,301               | 469         | 5,625        |
| Females.....              | 168                | 436             | 88                 | 757                            | 199                   | 280              | 315           | 523        | 2,202               | 491         | 5,459        |
| Total.....                | 361                | 876             | 185                | 1,563                          | 402                   | 599              | 610           | 1,025      | 4,503               | 960         | 11,084       |
| Males to each 100 females | 114.9              | 100.9           | 110.2              | 106.5                          | 102.0                 | 110.3            | 93.6          | 96.0       | 104.5               | 95.5        | 103.0        |

Compared with the previous year, the decrease in the proportion of male births in the whole State was 3.7 per cent.

The following Table exhibits the proportions of births of the sexes for the past thirty-eight years in the larger divisions of the State and in the whole State :

## TABLE XIX.

*Number of Males to each 100 Females.*

| BIRTHS.   | Bristol<br>County. | Kent<br>County. | Newport<br>County.* | Providence<br>County<br>Towns.† | Providence<br>City. | Washington<br>County. | Whole State. |
|-----------|--------------------|-----------------|---------------------|---------------------------------|---------------------|-----------------------|--------------|
| 1863..... | 120.0              | 98.4            | 97.0                | 101.8                           | 111.4               | 108.7                 | 105.8        |
| 1864..... | 106.8              | 87.3            | 90.6                | 107.4                           | 97.3                | 103.4                 | 100.3        |
| 1865..... | 119.3              | 118.2           | 108.8               | 118.8                           | 113.8               | 88.1                  | 112.9        |
| 1866..... | 109.4              | 113.1           | 103.4               | 104.9                           | 108.4               | 124.0                 | 108.7        |
| 1867..... | 115.5              | 98.3            | 117.8               | 106.3                           | 104.5               | 120.4                 | 107.7        |
| 1868..... | 117.4              | 88.7            | 100.2               | 101.6                           | 102.4               | 136.5                 | 104.5        |
| 1869..... | 115.7              | 116.7           | 102.7               | 98.0                            | 107.5               | 120.6                 | 104.9        |
| 1870..... | 126.4              | 111.6           | 100.0               | 105.1                           | 104.9               | 99.5                  | 105.6        |
| 1871..... | 131.8              | 97.9            | 132.5               | 100.8                           | 95.2                | 113.3                 | 102.8        |
| 1872..... | 109.2              | 92.8            | 109.1               | 108.5                           | 95.7                | 110.6                 | 100.9        |
| 1873..... | 129.2              | 113.0           | 117.9               | 104.5                           | 109.0               | 104.7                 | 108.6        |
| 1874..... | 98.7               | 111.9           | 101.3               | 110.4                           | 102.9               | 94.0                  | 104.9        |
| 1875..... | 95.2               | 103.1           | 97.7                | 104.3                           | 109.1               | 184.3                 | 106.9        |
| 1876..... | 142.1              | 104.4           | 108.5               | 108.0                           | 106.8               | 103.7                 | 108.3        |
| 1877..... | 138.7              | 102.4           | 98.5                | 100.3                           | 104.9               | 95.3                  | 103.0        |
| 1878..... | 120.5              | 120.6           | 94.8                | 101.5                           | 106.8               | 78.8                  | 102.7        |
| 1879..... | 124.3              | 95.5            | 103.6               | 105.4                           | 105.7               | 106.3                 | 105.4        |
| 1880..... | 117.2              | 110.5           | 113.5               | 102.4                           | 107.6               | 95.4                  | 106.1        |
| 1881..... | 91.2               | 111.3           | 102.0               | 105.9                           | 109.0               | 115.7                 | 107.2        |
| 1882..... | 94.7               | 110.2           | 112.5               | 103.1                           | 106.5               | 105.7                 | 105.8        |
| 1883..... | 94.0               | 97.6            | 97.0                | 103.5                           | 102.2               | 102.2                 | 101.4        |
| 1884..... | 105.0              | 111.7           | 92.9                | 102.5                           | 105.8               | 99.0                  | 103.4        |
| 1885..... | 132.2              | 107.3           | 98.0                | 104.8                           | 103.6               | 104.3                 | 104.4        |
| 1886..... | 120.0              | 81.7            | 102.6               | 106.7                           | 105.0               | 121.7                 | 104.6        |
| 1887..... | 115.1              | 121.7           | 106.6               | 103.9                           | 107.9               | 106.7                 | 107.2        |
| 1888..... | 98.1               | 105.1           | 105.0               | 103.4                           | 107.4               | 110.2                 | 105.4        |
| 1889..... | 81.9               | 122.0           | 107.5               | 103.6                           | 101.4               | 110.2                 | 104.1        |
| 1890..... | 96.5               | 113.0           | 106.8               | 108.5                           | 98.3                | 97.4                  | 103.6        |
| 1891..... | 107.1              | 110.4           | 118.4               | 107.0                           | 100.1               | 106.4                 | 109.5        |
| 1892..... | 120.0              | 102.1           | 102.4               | 110.7                           | 100.0               | 98.5                  | 105.8        |
| 1893..... | 90.7               | 101.8           | 97.7                | 104.1                           | 104.1               | 109.0                 | 105.8        |
| 1894..... | 103.4              | 102.4           | 121.1               | 110.2                           | 99.6                | 106.5                 | 105.6        |
| 1895..... | 118.4              | 116.3           | 100.8               | 105.0                           | 109.6               | 115.6                 | 108.2        |
| 1896..... | 96.5               | 95.4            | 103.7               | 102.4                           | 105.8               | 108.5                 | 103.3        |
| 1897..... | 101.2              | 108.4           | 97.5                | 103.9                           | 104.4               | 96.2                  | 103.6        |
| 1898..... | 96.2               | 104.4           | 98.9                | 101.6                           | 105.2               | 102.3                 | 102.9        |
| 1899..... | 121.9              | 103.2           | 114.0               | 106.8                           | 102.9               | 129.2                 | 106.7        |
| 1900..... | 114.9              | 100.9           | 113.0               | 99.3                            | 104.5               | 102.0                 | 103.0        |

\* Including city of Newport.

† Including cities of Central Falls, Pawtucket, and Woonsocket.

There will be found in the following summary, in the aggregate, the average number of males to each 100 females, born during the thirty-eight years from 1862-1900, in the different divisions of the State :

|                               |                                  |
|-------------------------------|----------------------------------|
| Bristol County .....          | 111.5 males to each 100 females. |
| Kent County.....              | 105.3 males to each 100 females. |
| Newport County*.....          | 105.2 males to each 100 females. |
| Providence County Towns†..... | 104.8 males to each 100 females. |
| Providence City.....          | 104.8 males to each 100 females. |
| Washington County.....        | 107.5 males to each 100 females. |
| Whole State.....              | 105.3 males to each 100 females. |

### BIRTHS AND SEASON.

Table II, on pages 6 and 7 of this report, gives the number of births occurring in the different months of the year, in the several divisions of the State.

According to this table, the greatest number of births in any one month, in 1900, occurred in August, and the largest in any quarter in the third.

The following table shows the total number of children born in the State of Rhode Island, according to the returns, in each quarter of each of the last six years ; and also the aggregate number and the percentage of the aggregate of each quarter in forty-seven years, from 1854 to 1900, inclusive :

TABLE XX.

| QUARTERS.            | 1900.  | 1899.  | 1898.  | 1897.  | 1896.  | 1895. | 1854-1900, inclusive. |           |
|----------------------|--------|--------|--------|--------|--------|-------|-----------------------|-----------|
|                      |        |        |        |        |        |       | Number.               | Per cent. |
| January—March.....   | 2,736  | 2,693  | 2,686  | 2,749  | 2,604  | 2,260 | 74,273                | 23.79     |
| April—June.....      | 2,581  | 2,549  | 2,562  | 2,386  | 2,461  | 2,345 | 73,734                | 23.63     |
| July—September.....  | 2,921  | 2,791  | 2,802  | 2,983  | 2,790  | 2,704 | 81,755                | 26.19     |
| October—December.... | 2,846  | 2,798  | 2,680  | 2,677  | 2,895  | 2,573 | 82,393                | 26.39     |
| Whole Year.....      | 11,084 | 10,831 | 10,730 | 10,795 | 10,750 | 9,882 | 312,155               | 100.00    |

Table XX presents results showing that, according to the registration of forty-seven years, the average proportions of births to

\* Including city of Newport.

† Including cities of Central Falls, Pawtucket, and Woonsocket.

the whole number of births in the different quarters of the year were as follows :

|                       |                              |
|-----------------------|------------------------------|
| January—March.....    | 237.9 in every 1,000 births. |
| April—June.....       | 236.3 in every 1,000 births. |
| July—September.....   | 261.9 in every 1,000 births. |
| October—December..... | 263.9 in every 1,000 births. |

The proportions of births in Rhode Island, in the different quarters of the year, to the whole number of births in 1900, were as follows :

|                          |                         |                                            |
|--------------------------|-------------------------|--------------------------------------------|
| 1. January—March.....    | 24.7 per cent., or..... | 247 in every 1,000                         |
| 2. April—June.....       | 23.3 per cent., or..... | 233 in every 1,000                         |
| 3. July—September.....   | 26.3 per cent., or..... | 263 in every 1,000                         |
| 4. October—December..... | 25.7 per cent., or..... | 257 in every 1,000                         |
| First six months.....    |                         | 480 births in every 1,000 of whole number. |
| Second six months.....   |                         | 520 births in every 1,000 of whole number. |

### BIRTHS. *Sex and Season.*

In Table II, on pages 6 and 7, will also be found the number of births of *each sex* by months, as they occurred in the different divisions of the State, during the year 1900. From it we ascertain the number of *each of the sexes* born during each quarter of the year, with their relative proportions, and also the aggregates and proportions of the same for the whole State.

The following table will present a summary of the quarterly periods, number of births, and proportions of the sexes, for the same year :

|                          | Males.     | Females.   | Males to each<br>100 | Per 1,000<br>each quarter. |          |
|--------------------------|------------|------------|----------------------|----------------------------|----------|
|                          |            |            | Females.             | Males.                     | Females. |
| 1. January—March...      | 1,417..... | 1,319..... | 107.4.....           | 518.....                   | 482      |
| 2. April—June.....       | 1,322..... | 1,259..... | 105.0.....           | 512.....                   | 488      |
| 3. July—September.....   | 1,445..... | 1,476..... | 97.9.....            | 495.....                   | 505      |
| 4. October—December..... | 1,441..... | 1,405..... | 102.6.....           | 506.....                   | 494      |
| Whole Year.....          | 5,625..... | 5,459..... | 103.0.....           | 507.....                   | 493      |

The following table shows the number of male children born to every 100 female children, in each quarter of the last three years; and also the proportion of births of male children to each 100 female children born during seven periods of five years each, from 1866 to 1900, inclusive :

TABLE XXI.

| YEARS.              | 1900. | 1899. | 1898. | 5<br>years,<br>1896 to<br>1900. | 5<br>years,<br>1891 to<br>1895. | 5<br>years,<br>1886 to<br>1890. | 5<br>years,<br>1881 to<br>1885. | 5<br>years,<br>1876 to<br>1880. | 5<br>years,<br>1871 to<br>1875. | 5<br>years,<br>1866 to<br>1870. |
|---------------------|-------|-------|-------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| First Quarter.....  | 107.4 | 106.2 | 106.0 | 103.8                           | 104.6                           | 104.3                           | 105.8                           | 106.0                           | 101.5                           | 106.6                           |
| Second Quarter..... | 105.0 | 107.9 | 102.4 | 105.1                           | 107.3                           | 105.4                           | 104.8                           | 102.7                           | 104.7                           | 107.3                           |
| Third Quarter.....  | 97.9  | 106.9 | 102.7 | 102.8                           | 108.6                           | 104.6                           | 105.1                           | 107.1                           | 104.8                           | 106.0                           |
| Fourth Quarter..... | 102.6 | 105.9 | 100.7 | 104.2                           | 105.8                           | 106.5                           | 102.5                           | 108.2                           | 106.5                           | 104.8                           |
| Total Average.....  | 108.0 | 106.7 | 102.9 | 103.9                           | 106.5                           | 105.2                           | 104.5                           | 106.2                           | 104.2                           | 106.2                           |

The above table shows the variation of the proportions of the sexes in the different quarters in the different years, and seems to conclusively determine that season has very little, if any, influence in the causation of sex.

## PARENTAGE.

By reference to Table I, page 4, in the division of births, there will be found the parentage of the children born in Rhode Island during the year 1900. It will be seen that of the whole number, 11,084, there were 3,388 of native parentage, 5,499 foreign, and 2,197 of mixed parentage.

By mixed parentage is meant the children born of native fathers and foreign mothers, and of foreign fathers and native mothers.

Of native fathers and foreign mothers there were 1,078, and of foreign fathers and native mothers, 1,119.

The following table will show the number and parentage of the children born in the State and the variations of the same from year to year, in each of the last three years; and also the number and variations occurring in four periods of five years each, and two of ten years each, from 1858 to 1900, inclusive:

TABLE XXII.

| PARENTAGE.                     | 1900.  | 1899.  | 1898.  | 5<br>years,<br>1893 to<br>1897. | 5<br>years,<br>1888 to<br>1892. | 5<br>years,<br>1883 to<br>1887. | 5<br>years,<br>1878 to<br>1882. | 10<br>years,<br>1868 to<br>1877. | 10<br>years,<br>1858 to<br>1867. |
|--------------------------------|--------|--------|--------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|
| Native father and mother.....  | 3,388  | 3,290  | 3,413  | 16,762                          | 16,511                          | 15,001                          | 14,169                          | 25,645                           | 20,321                           |
| Foreign father and mother..... | 5,499  | 5,495  | 5,307  | 25,684                          | 18,737                          | 15,245                          | 13,562                          | 26,356                           | 19,665                           |
| Native father, foreign mother. | 1,078  | 1,031  | 1,014  | 4,819                           | 4,021                           | 3,044                           | 2,327                           | 3,135                            | 1,690                            |
| Foreign father, native mother. | 1,119  | 1,015  | 996    | 4,795                           | 4,037                           | 3,378                           | 2,887                           | 4,077                            | 1,696                            |
| Parentage not stated.....      | ..     | .....  | .....  | .....                           | .....                           | .....                           | .....                           | .....                            | 293                              |
| Total.....                     | 11,081 | 10,831 | 10,730 | 51,160                          | 44,306                          | 36,608                          | 32,915                          | 59,213                           | 43,665                           |



The following table of *percentages* will show, in a different and perhaps clearer way, the same changes that have occurred in the proportions of the births in the different classes of parentage during the last three years, and during forty-three years, from 1858 to 1900, inclusive, in four periods of five years each, and two of ten years :

TABLE XXIII.

| PARENTAGE.                      | 1900.  | 1899.  | 1898.  | 5<br>years,<br>1893 to<br>1897. | 5<br>years,<br>1888 to<br>1892. | 5<br>years,<br>1883 to<br>1887. | 5<br>years,<br>1878 to<br>1882. | 10<br>years,<br>1868 to<br>1877. | 10<br>years,<br>1858 to<br>1867. |
|---------------------------------|--------|--------|--------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|
| Native father and mother.....   | 30.56  | 30.37  | 31.81  | 32.60                           | 38.25                           | 40.91                           | 43.03                           | 43.36                            | 46.84                            |
| Foreign father and mother.....  | 49.61  | 50.74  | 49.46  | 48.73                           | 43.14                           | 41.58                           | 41.23                           | 44.53                            | 45.36                            |
| Native father, foreign mother.. | 9.73   | 9.52   | 9.45   | 9.36                            | 9.30                            | 8.80                            | 6.95                            | 5.37                             | 3.89                             |
| Foreign father, native mother.. | 10.10  | 9.37   | 9.28   | 9.31                            | 9.31                            | 9.21                            | 8.79                            | 6.74                             | 3.91                             |
| Total.....                      | 100.00 | 100.00 | 100.00 | 100.00                          | 100.00                          | 100.00                          | 100.00                          | 100.00                           | 100.00                           |

The registration of births, in 1900, is of interest as continuing to show, as usual, a smaller proportion of children born of native fathers than of foreign fathers. A considerable number of those recorded as native fathers were themselves children of foreign parentage.

The percentage of children of mixed parentage was about the same, in 1900, as in the previous year.

The following table will present the percentages of children of native and of foreign-born fathers, and of native and foreign-born mothers, respectively, in each of the last three years, and in each of four periods of five years each and two of ten years each, from 1858 to 1889, inclusive :

TABLE XXIV.

| CHILDREN WITH        | 1900. | 1899. | 1898. | 5<br>years,<br>1893 to<br>1897. | 5<br>years,<br>1888 to<br>1892. | 5<br>years,<br>1883 to<br>1887. | 5<br>years,<br>1878 to<br>1882. | 10<br>years,<br>1868 to<br>1877. | 10<br>years,<br>1858 to<br>1867. |
|----------------------|-------|-------|-------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|
| Native fathers.....  | 40.29 | 39.89 | 41.26 | 41.96                           | 47.56                           | 49.21                           | 50.08                           | 48.73                            | 50.73                            |
| Foreign fathers..... | 59.71 | 60.11 | 58.74 | 58.01                           | 52.44                           | 51.79                           | 49.92                           | 51.27                            | 49.26                            |
| Native mothers....   | 40.66 | 39.75 | 41.09 | 41.91                           | 47.57                           | 49.91                           | 51.79                           | 50.10                            | 50.73                            |
| Foreign mothers..... | 59.34 | 60.25 | 58.91 | 58.09                           | 52.43                           | 50.09                           | 48.21                           | 49.90                            | 49.25                            |



The percentage of the children born of foreign fathers and of foreign mothers, during 1900, was smaller than in 1899.

The number of native fathers of children born, in 1900, was 2,152 less than the number of foreign fathers, and the number of native mothers was 2,070 less than of foreign.

### BIRTHS OF COLORED CHILDREN.

The number of births of children of colored parentage reported for the year 1900 is 231. This number is 30 greater than in 1899, and also 15 greater than in 1898.

In regard to sex, the numbers and proportions were as follows, viz.: males, 120; females, 111; or 108.1 males to each 100 females.

As the number of colored persons in the State was, according to the census of 1900, 9,125,\* the ratio of births in this class would be 25.3 per thousand, or 1 to each 39.5 colored inhabitants.

The following summary will show the changes that have occurred from year to year, in the proportions of the sexes of colored children born in Rhode Island, during the last twenty-five years:

| Years.         | Whole<br>Number. | Males.   | Females. | Males to<br>each 100<br>Females. |
|----------------|------------------|----------|----------|----------------------------------|
| 1876-1885..... | 1,762.....       | 849..... | 913..... | 93.0                             |
| 1886.....      | 212.....         | 117..... | 95.....  | 123.0                            |
| 1887.....      | 211.....         | 111..... | 100..... | 111.0                            |
| 1888.....      | 202.....         | 109..... | 93.....  | 117.2                            |
| 1889.....      | 191.....         | 87.....  | 107..... | 81.3                             |
| 1890.....      | 183.....         | 89.....  | 94.....  | 94.6                             |
| 1891.....      | 173.....         | 86.....  | 87.....  | 98.9                             |
| 1892.....      | 182.....         | 91.....  | 88.....  | 106.8                            |
| 1893.....      | 203.....         | 91.....  | 112..... | 81.3                             |
| 1894.....      | 221.....         | 113..... | 108..... | 104.6                            |
| 1895.....      | 221.....         | 117..... | 104..... | 112.5                            |
| 1896.....      | 226.....         | 104..... | 122..... | 85.2                             |
| 1897.....      | 206.....         | 100..... | 106..... | 94.3                             |
| 1898.....      | 216.....         | 105..... | 111..... | 94.6                             |
| 1899.....      | 201.....         | 105..... | 96.....  | 109.4                            |
| 1900.....      | 231.....         | 120..... | 111..... | 108.1                            |

The following table will show the location, number, sex, etc., of colored births during 1900:

\* This does not include Chinese or Japanese.

TABLE XXV.

*Showing Number, Sex, etc., of Colored Births, 1900.*

| TOWNS AND CITIES.    | Whole<br>Number. | Males. | Females. | COUNTIES.                |
|----------------------|------------------|--------|----------|--------------------------|
| Bristol.....         | 1                | .....  | 1        | Bristol County ..... 1   |
| Warwick.....         | 3                | 2      | 1        | Kent County ..... 3      |
| Little Compton.....  | 1                | 1      | .....    |                          |
| Middletown.....      | 1                | 1      | .....    |                          |
| NEWPORT CITY.....    | 47               | 28     | 19       |                          |
| New Shoreham.....    | 1                | 1      | .....    |                          |
| Portsmouth.....      | 1                | .....  | 1        | Newport County..... 51   |
| CENTRAL FALLS.....   | 3                | 1      | 2        |                          |
| Cranston.....        | 6                | 3      | 3        |                          |
| East Providence..... | 8                | 2      | 6        |                          |
| PAWTUCKET.....       | 3                | 3      | .....    |                          |
| PROVIDENCE CITY..... | 141              | 69     | 72       | Providence County... 161 |
| Charlestown.....     | 1                | 1      | .....    |                          |
| Hopkinton.....       | 1                | 1      | .....    |                          |
| North Kingstown..... | 2                | 1      | 1        |                          |
| South Kingstown..... | 7                | 5      | 2        |                          |
| Richmond.....        | 1                | 1      | .....    |                          |
| Westerly.....        | 3                | .....  | 3        | Washington County.. 15   |
| WHOLE STATE.....     | 231              | 120    | 111      | ..... 231                |

## NUMBER OF CHILD OF THE MOTHER.

In the following table will be found the number of the child of the mother born during 1900; that is, how many of the children born were reported as the first, second, or third child, etc., of their respective mothers. The statistics on this subject begin with the year 1857, and the following table includes the children reported during the last six years, and also the total for forty-four years, 1857 to 1900, inclusive:

TABLE XXVI.

| NUMBER OF THE CHILD OF THE MOTHER. | 1895. | 1896.  | 1897.  | 1898.  | 1899.  | 1900.  | 44 years,<br>1857-1900. |
|------------------------------------|-------|--------|--------|--------|--------|--------|-------------------------|
| First.....                         | 2,329 | 2,574  | 2,438  | 2,393  | 2,426  | 2,640  | 72,937                  |
| Second.....                        | 2,008 | 2,125  | 2,098  | 2,059  | 2,089  | 1,977  | 59,346                  |
| Third.....                         | 1,512 | 1,672  | 1,687  | 1,631  | 1,635  | 1,616  | 46,117                  |
| Fourth.....                        | 1,129 | 1,233  | 1,291  | 1,310  | 1,286  | 1,342  | 34,978                  |
| Fifth.....                         | 895   | 918    | 927    | 982    | 942    | 978    | 26,072                  |
| Sixth.....                         | 640   | 666    | 712    | 715    | 753    | 771    | 19,229                  |
| Seventh.....                       | 429   | 488    | 499    | 532    | 544    | 531    | 13,786                  |
| Eighth.....                        | 304   | 337    | 342    | 378    | 382    | 378    | 9,798                   |
| Ninth.....                         | 203   | 259    | 260    | 231    | 238    | 289    | 6,657                   |
| Tenth.....                         | 148   | 161    | 180    | 180    | 176    | 199    | 4,550                   |
| Eleventh.....                      | 102   | 123    | 132    | 105    | 120    | 125    | 2,854                   |
| Twelfth.....                       | 65    | 71     | 89     | 80     | 86     | 82     | 1,846                   |
| Thirteenth.....                    | 36    | 40     | 50     | 54     | 58     | 63     | 1,096                   |
| Fourteenth.....                    | 27    | 26     | 37     | 33     | 39     | 34     | 590                     |
| Fifteenth.....                     | 22    | 12     | 14     | 10     | 12     | 31     | 308                     |
| Sixteenth.....                     | 5     | 13     | 6      | 5      | 7      | 7      | 156                     |
| Seventeenth.....                   | 2     | 4      | 4      | 8      | 4      | 2      | 86                      |
| Eighteenth.....                    | 2     | 3      | .....  | .....  | .....  | 1      | 36                      |
| Nineteenth.....                    | 2     | 3      | 2      | 3      | 1      | 1      | 26                      |
| Twentieth.....                     | ..... | .....  | .....  | .....  | 1      | 1      | 10                      |
| Twenty-first.....                  | ..... | .....  | .....  | .....  | 1      | .....  | 5                       |
| Twenty-second.....                 | ..... | .....  | .....  | .....  | 1      | 1      | 1                       |
| Unstated.....                      | 22    | 22     | 27     | 21     | 20     | 22     | 376                     |
| Total.....                         | 9,882 | 10,759 | 10,795 | 10,730 | 10,831 | 11,084 | 300,863                 |

There was an increase of 253 in the whole number of births in 1900 from the number in 1899.

There are varying differences in the proportions of all classes in the different years.

There was one return of birth each in the nineteenth, twentieth, and twenty-second classes.

The proportion of each class to the whole number will be shown by the following table, which gives the percentage of the children born in each of the last four years who were respectively the first, second, third, etc., children of the mothers; and which will also give the average percentage of each class of births in each of the last four years, and also in two periods of ten years, and two

periods of five years, comprising the thirty-three years from 1868 to 1900, inclusive :

| NUMBER OF THE CHILD.              | 1900.  | 1899.  | 1898.  | 1897.  | 5 years,<br>1893 to 1897. | 5 years,<br>1888 to 1892. | 10 years,<br>1878 to 1887. | 10 years,<br>1868 to 1877. |
|-----------------------------------|--------|--------|--------|--------|---------------------------|---------------------------|----------------------------|----------------------------|
| First .....                       | 23.82  | 22.40  | 22.30  | 22.52  | 23.78                     | 25.20                     | 23.7                       | 25.2                       |
| Second .....                      | 17.84  | 19.29  | 19.19  | 19.43  | 19.90                     | 19.77                     | 19.1                       | 20.7                       |
| Third.....                        | 14.58  | 15.09  | 15.20  | 15.63  | 15.29                     | 14.94                     | 15.5                       | 15.5                       |
| Fourth .....                      | 12.11  | 11.87  | 12.20  | 11.96  | 11.45                     | 11.10                     | 11.7                       | 11.4                       |
| Fifth.....                        | 8.82   | 8.70   | 9.15   | 8.59   | 8.52                      | 8.23                      | 8.8                        | 8.4                        |
| First to Fifth.....               | 77.17  | 77.35  | 78.04  | 78.19  | 78.94                     | 79.24                     | 78.8                       | 81.1                       |
| Sixth and over, and unstated..... | 22.83  | 22.65  | 21.96  | 21.81  | 21.06                     | 20.76                     | 21.2                       | 18.9                       |
| Total.....                        | 100.00 | 100.00 | 100.00 | 100.00 | 100.00                    | 100.00                    | 100.00                     | 100.00                     |

TABLE XXVII.

*Showing the Ages of the Fathers and Mothers of Children born in 1900.*

| AGES<br>OF<br>FATHERS. | AGES OF MOTHERS. |           |           |           |           |           |              |              |              |              |              |              |              |               | No. of Fathers. |
|------------------------|------------------|-----------|-----------|-----------|-----------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-----------------|
|                        | 14 years.        | 15 years. | 16 years. | 17 years. | 18 years. | 19 years. | 20-25 years. | 25-30 years. | 30-35 years. | 35-40 years. | 40-45 years. | 45-50 years. | 50-55 years. | Unstated age. |                 |
| 17 years.....          |                  |           |           |           | 1         |           |              |              |              |              |              |              |              |               | 1               |
| 18 years.....          |                  | 1         | 3         | 1         | 3         | 3         |              |              |              |              |              |              |              |               | 11              |
| 19 years.....          |                  |           | 2         | 1         | 4         | 4         | 7            | 4            |              |              |              |              |              |               | 22              |
| 20-25 years.....       | 1                | 1         | 9         | 26        | 61        | 87        | 820          | 165          | 18           | 7            | 1            |              | 1            |               | 1,200           |
| 25-30 years.....       |                  | 2         | 5         | 21        | 39        | 52        | 1,089        | 1,399        | 264          | 30           | 3            | 1            |              |               | 2,905           |
| 30-35 years.....       |                  | 1         |           | 4         | 9         | 11        | 339          | 1,164        | 1,171        | 177          | 15           | 1            |              |               | 2,892           |
| 35-40 years.....       |                  |           |           | 1         | 2         | 5         | 113          | 423          | 761          | 801          | 84           | 7            |              |               | 2,197           |
| 40-45 years.....       |                  |           |           | 1         | 3         | 1         | 29           | 94           | 241          | 485          | 277          | 9            |              |               | 1,140           |
| 45-50 years.....       |                  |           |           |           |           | 1         | 3            | 19           | 50           | 114          | 155          | 27           |              |               | 399             |
| 50-55 years.....       |                  |           |           |           |           |           | 3            | 10           | 19           | 11           | 55           | 12           |              |               | 140             |
| 55-60 years.....       |                  |           |           |           |           |           | 2            | 7            | 1            | 21           | 6            | 9            | 2            |               | 48              |
| 60-65 years.....       |                  |           |           |           |           |           | 2            | 2            | 3            | 3            | 8            | 1            |              |               | 19              |
| 65-70 years.....       |                  |           |           |           |           |           |              | 1            |              |              | 1            |              |              |               | 2               |
| Unstated.....          | 2                | 1         | 8         | 9         | 4         | 11        | 31           | 6            | 1            |              |              |              |              | 32            | 108             |
| No. of Mothers...      | 3                | 6         | 21        | 66        | 127       | 178       | 2,441        | 3,294        | 2,529        | 1,709        | 605          | 67           | 3            | 32            | 11,084          |

The nativity of the mothers under 19 years was as follows :

Of the three at 14 years, 2 were American, and 1 was Portuguese.

The six at 15 years were American.

Of the twenty-four at 16 years, 21 were American, 1 Canadian, and 2 Italian.

Of the sixty-six at 17 years, 39 were American, 1 was Belgian, 8 Canadian, 12 Italian, 2 Portugueses, 1 Spanish, and 3 West Indian.

Of the one hundred and twenty-seven at 18 years, 100 were American, 19 Canadian, 1 English, 6 Italian, and 1 Portuguese.

The 11,084 children were divided as follows, to mothers of different age periods :

|                                     | Number of<br>Mothers | Per<br>cent. |
|-------------------------------------|----------------------|--------------|
| Under twenty years.....             | 404.....             | 3.64         |
| Twenty, and under twenty-five ..... | 2,411.....           | 22.02        |
| Twenty-five, and under thirty.....  | 3,294.....           | 29.72        |
| Thirty, and under thirty-five.....  | 2,529.....           | 23.82        |
| Thirty-five, and under forty.....   | 1,709.....           | 15.42        |
| Forty, and under forty-five.....    | 605.....             | 5.46         |
| Forty-five and over.....            | 70.....              | .63          |
| Unstated age.....                   | 32.....              | .29          |
| <hr/>                               |                      |              |
| Total.....                          | 11,084.....          | 100.00       |

### PLURALITY BIRTHS.

The general statistics in relation to plural births, in Rhode Island, may be found on page 8, Table III.

There were one hundred and twenty-seven cases during the year, one hundred and twenty-four of which were twins and three were triplets, thus making the number of two hundred and fifty-seven children.

Of the 257 children of plural birth, 130 were males and 127 were females.

The cases occurred in the different divisions of the State as follows :

Bristol county, 5; Kent county, 14; Newport city, 7; Providence county towns, 47\*; Providence city, 49; Washington county, 5.

The following exhibit will show the parentage of children of plural birth in Rhode Island, in 1900, and number of each :

\* Including Central Falls, Pawtucket, and Woonsocket.

|                                                  |     |
|--------------------------------------------------|-----|
| Parents both native Americans.....               | 32  |
| Parents both born in Australia.....              | 1   |
| "    "    "    Austria.....                      | 1   |
| "    "    "    British America.....              | 3   |
| "    "    "    Canada (French).....              | 23  |
| "    "    "    England.....                      | 6   |
| "    "    "    Ireland.....                      | 11  |
| "    "    "    Italy.....                        | 11  |
| "    "    "    Portugal.....                     | 2   |
| "    "    "    Russia.....                       | 5   |
| "    "    "    Scotland.....                     | 1   |
| "    "    "    Sweden.....                       | 3   |
| "    "    "    Syrta.....                        | 1   |
| American father and British-American mother..... | 3   |
| American father and English mother.....          | 3   |
| American father and Irish mother.....            | 2   |
| Belgian father and British-American mother.....  | 1   |
| British-American father and American mother..... | 1   |
| English father and American mother.....          | 2   |
| English father and Irish mother.....             | 3   |
| French-Canadian father and American mother.....  | 7   |
| Irish father and American mother.....            | 3   |
| Polish father and German mother.....             | 1   |
| Scotch father and British-American mother.....   | 1   |
| <hr/>                                            |     |
| Total births.....                                | 127 |
| <hr/>                                            |     |
| Total children.....                              | 257 |

The months in which the plurality births occurred were as follows:

|                           |                     |                            |                     |
|---------------------------|---------------------|----------------------------|---------------------|
| January..... 5            | April..... 9        | July.....15                | October.....17      |
| February.....12           | May.....12          | August.....11              | November..... 7     |
| March.....10              | June.....10         | September.....10           | December..... 9     |
| —                         | —                   | —                          | —                   |
| First Quarter.....27      | Second Quarter...31 | Third Quarter....36        | Fourth Quarter...33 |
| First half of year.....58 |                     | Second half of year.....69 |                     |
| Total.....127             |                     |                            |                     |

The general statistics of births, and number of *cases* reported in Rhode Island during a period of forty-seven years, that is, from 1854 to 1900, inclusive, are as follows:



|                                     |                          |
|-------------------------------------|--------------------------|
| 307,904 cases of single births..... | giving 307,904 children. |
| 3,266 cases of twin births.....     | giving 6,532 children.   |
| 35 cases of triple births.....      | giving 105 children.     |
| 1 case of quadruple births.....     | giving 4 children.       |

Of the whole number of *cases* of child-birth (311,206) during the forty-seven years, one in 95.2 produced twins, one in 8,891 produced triplets, and one in 311,206 produced quadruplets.

Of the whole number of children born during the same period (314,545), ascertained from the reports, one in every 48.2 was a twin; one in every 2,996 was a triplet.

Of the 3,302 *cases* of plurality births which have occurred in the State during the last forty-seven years, there were 1,219 cases in which both parents were natives; 1,616 cases in which both parents were foreign; 458 cases in which the parents were mixed, that is, one native and one foreign parent; and 9 in which the parentage was not stated.

The whole number of children born in plurality cases, during the forty-seven years, was 6,641; of whom 3,351 were males, and 3,286 were females; the sex of the remaining four was not given.

#### STILL-BORN.

The whole number of still-born children reported in Rhode Island, for the year 1900, was 374; this number is 15 less than for the year 1899.

The following are the numbers reported from the different divisions of the State:

|                               |     |
|-------------------------------|-----|
| Bristol County.....           | 10  |
| Kent County.....              | 21  |
| Newport County Towns.....     | 5   |
| Newport City.....             | 23  |
| Providence County Towns ..... | 31  |
| Central Falls.....            | 20  |
| Pawtucket.....                | 23  |
| Providence City.....          | 207 |
| Woonsocket.....               | 21  |
| Washington County.....        | 10  |
| Whole State.....              | 374 |

The following table will give the number in each town from which still-births were reported, with the sex, parentage, and color:

TABLE XXVIII.

*Still-Born, 1900 ; Locality, Number, Sex, Parentage, and Color.*

| TOWNS AND DIVISIONS OF<br>THE STATE. | Total. | SEX.   |          | PARENTAGE. |          | COLOR. |          |
|--------------------------------------|--------|--------|----------|------------|----------|--------|----------|
|                                      |        | Males. | Females. | Native.    | Foreign. | White. | Colored. |
| Barrington.....                      | 1      | 1      | .....    | .....      | 1        | 1      | .....    |
| Bristol.....                         | 4      | 1      | 3        | 2          | 2        | 4      | .....    |
| Warren.....                          | 5      | 2      | 3        | .....      | 5        | 5      | .....    |
| BRISTOL COUNTY.....                  | 10     | 4      | 6        | 2          | 8        | 10     | .....    |
| Coventry.....                        | 5      | 2      | 3        | 2          | 3        | 5      | .....    |
| East Greenwich.....                  | 1      | 1      | .....    | .....      | 1        | 1      | .....    |
| Warwick.....                         | 15     | 8      | 7        | 6          | 9        | 15     | .....    |
| KENT COUNTY.....                     | 21     | 11     | 10       | 8          | 13       | 21     | .....    |
| Jamestown.....                       | 2      | 1      | 1        | 1          | 1        | 2      | .....    |
| NEWPORT CITY.....                    | 23     | 11     | 9        | 14         | 9        | 20     | 3        |
| Portsmouth.....                      | 1      | .....  | 1        | 1          | .....    | 1      | .....    |
| Tiverton.....                        | 2      | 1      | 1        | .....      | 2        | 2      | .....    |
| NEWPORT COUNTY.....                  | 28     | 16     | 12       | 16         | 12       | 25     | 3        |
| Burrillville.....                    | 3      | 1      | 2        | 1          | 2        | 3      | .....    |
| CENTRAL FALLS.....                   | 20     | 15     | 5        | 2          | 18       | 20     | .....    |
| Cranston.....                        | 5      | 3      | 2        | .....      | 5        | 5      | .....    |
| Cumberland.....                      | 8      | 5      | 3        | 2          | 6        | 8      | .....    |
| East Providence.....                 | 4      | 3      | 1        | 3          | 1        | 4      | .....    |
| Johnston.....                        | 5      | 2      | 3        | .....      | 5        | 5      | .....    |
| Lincoln.....                         | 2      | 1      | 1        | 1          | 1        | 2      | .....    |
| North Providence.....                | 1      | .....  | 1        | .....      | 1        | 1      | .....    |
| North Smithfield.....                | 3      | 2      | 1        | 2          | 1        | 3      | .....    |
| PAWTECKET.....                       | 23     | 13     | 10       | 14         | 9        | 23     | .....    |
| PROVIDENCE CITY.....                 | 207    | 119    | 88       | 90         | 117      | 197    | 10       |
| Scituate.....                        | 2      | 2      | .....    | .....      | 2        | 2      | .....    |
| Smithfield.....                      | 1      | 1      | .....    | .....      | 1        | 1      | .....    |
| WOONSOCKET.....                      | 21     | 18     | 3        | 7          | 14       | 21     | .....    |
| PROVIDENCE COUNTY.....               | 305    | 185    | 120      | 122        | 183      | 295    | 10       |
| Hopkinton.....                       | 2      | 1      | 1        | 2          | .....    | 2      | .....    |
| South Kingstown.....                 | 3      | 2      | 1        | 3          | .....    | 3      | .....    |
| Westerly.....                        | 5      | 2      | 3        | 3          | 2        | 1      | 1        |
| WASHINGTON COUNTY.....               | 10     | 5      | 5        | 8          | 2        | 9      | 1        |
| Total.....                           | 374    | 221    | 153      | 156        | 218      | 360    | 14       |

## SUMMARY OF SEX OF STILL-BORN.

The following Table shows the number and sex of the still-born children whose births were reported in Rhode Island during each of the last five years, and also of a period of forty-seven years, extending from January 1, 1854, to December 31, 1900.

TABLE XXIX.

| SEX.          | 1900. | 1899. | 1898. | 1897. | 1896. | Jan. 1, 1854,<br>to<br>Dec. 31, 1900. |
|---------------|-------|-------|-------|-------|-------|---------------------------------------|
| Males.....    | 221   | 210   | 240   | 258   | 244   | 6,901                                 |
| Females ..... | 153   | 179   | 173   | 165   | 180   | 4,923                                 |
| Total.....    | 374   | 389   | 413   | 423   | 424   | 11,824                                |

The average proportions of the sexes of the still-born, for the period of forty-seven years, were as follows: In every 100 still-births there were about 58 males and 42 females.

*Season of Still-Births.*—During 1900 the proportions in relation to season, by percentage, were as follows:

|                                       | 1900. |                         | 1900. |
|---------------------------------------|-------|-------------------------|-------|
| First Quarter.....                    | 23.80 | Third Quarter.....      | 24.86 |
| Second Quarter .....                  | 23.53 | Fourth Quarter.....     | 27.81 |
| Per cent. first half of the year..... | 47.33 | Last half of the year.. | 52.67 |

The births of the still-born in the different months of the year, although somewhat variable in number, do not, as a rule, show great discrepancies.

## PARENTAGE OF THE STILL-BORN.

Of the 374 still-born children reported in 1900 there were 156 of native and 218 of foreign parentage, reckoned by the nativity of the fathers, that is, the father's name given; and 152 of native and 222 of foreign, reckoned by the nativity of the mothers, name of father given or not given.

## ILLEGITIMATES.

In the following Table will be found the whole number of illegitimate births returned during 1900, with the sex, color, parentage, and locality of birth:

TABLE XXX.

*Illegitimates, 1900.*

| TOWNS.               | Whole Number. | SEX.   |          | COLOR. |        | PARENTAGE. |          |
|----------------------|---------------|--------|----------|--------|--------|------------|----------|
|                      |               | Males. | Females. | White. | Black. | Native.    | Foreign. |
| Barrington.....      | 1             | 1      | .....    | 1      | .....  | 1          | .....    |
| Bristol.....         | 4             | 2      | 2        | 4      | .....  | 4          | .....    |
| Warren.....          | 2             | 1      | 1        | 2      | .....  | 1          | 1        |
| Warwick.....         | 3             | .....  | 3        | 3      | .....  | 1          | 2        |
| NEWPORT CITY.....    | 14            | 5      | 9        | 8      | 6      | 11         | 3        |
| New Shoreham.....    | 2             | 1      | 1        | 2      | .....  | 2          | .....    |
| Burrillville.....    | 1             | 1      | .....    | 1      | .....  | 1          | .....    |
| CENTRAL FALLS.....   | 3             | 1      | 2        | 3      | .....  | 3          | .....    |
| Cranston.....        | 10            | 5      | 5        | 7      | 3      | 4          | 6        |
| East Providence..... | 1             | 1      | .....    | 1      | .....  | 1          | .....    |
| Gloicester.....      | 1             | .....  | 1        | 1      | .....  | 1          | .....    |
| Johnston.....        | 1             | 1      | .....    | 1      | .....  | .....      | 1        |
| Lincoln.....         | 2             | .....  | 2        | 2      | .....  | .....      | 2        |
| PAWTUCKET.....       | 4             | 3      | 1        | 4      | .....  | 1          | 3        |
| PROVIDENCE CITY..... | 83            | 46     | 37       | 69     | 14     | 59         | 24       |
| Scituate.....        | 1             | 1      | .....    | 1      | .....  | 1          | .....    |
| WOONSOCKET.....      | 10            | 3      | 7        | 10     | .....  | 7          | 3        |
| Hopkinton.....       | 1             | 1      | .....    | 1      | .....  | 1          | .....    |
| South Kingstown..... | 5             | 1      | 4        | 4      | 1      | 4          | 1        |
| WHOLE STATE.....     | 149           | 74     | 75       | 125    | 24     | 103        | 46       |

There were returns, during 1900, of 149 children of illegitimate parentage. The number is 3 less than that of the previous year.

*Sex.*—Of the 149, there were 74 males and 75 females.

*Color.*—Of the 149 illegitimates born during 1900, 125, or 83.9 per cent., were white; and 24, or 16.1 per cent., were colored.

*Parentage.*—Of the 149, 103, or 69.1 per cent. of all, were born of native mothers; and 46, or 30.9 per cent., of foreign born mothers. The colored illegitimates were all of native parentage. There were of the 125 white illegitimates, 103 born of native mothers, and 46 of foreign mothers.

The ages of the mothers were as follows :

| Age.    | No. of Mothers. | Age.    | No. of Mothers. | Age.         | No. of Mothers. |
|---------|-----------------|---------|-----------------|--------------|-----------------|
| 14..... | 3               | 24..... | 11              | 35.....      | 1               |
| 15..... | 2               | 25..... | 8               | 37.....      | 1               |
| 16..... | 7               | 26..... | 7               | 38.....      | 2               |
| 17..... | 9               | 27..... | 5               | 40.....      | 2               |
| 18..... | 7               | 28..... | 3               | 46.....      | 1               |
| 19..... | 14              | 30..... | 4               | Unknown..... | 2               |
| 20..... | 13              | 31..... | 1               |              | —               |
| 21..... | 11              | 32..... | 3               | Total.....   | 149             |
| 22..... | 17              | 33..... | 3               |              |                 |
| 23..... | 10              | 34..... | 2               |              |                 |

Sixty-eight of the illegitimates were born of indigent, pauper, or criminal mothers, in public, charitable, or penal institutions.

Fifty-three of these sixty-eight births occurred at the Lying-in-Hospital, in the city of Providence.

The proportion of illegitimates to the whole number of births was about one in every 74 cases, or about 13 in every 1,000.

## MARRIAGES, 1900.

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The number of marriages registered in Rhode Island, during the year 1900, was 3,936. This number is 658 more than in 1898, and 503 more than in 1899.

The general statistics of marriage, in 1900, in relation to season and number, in the different divisions of the State, may be found in Table IV, on the ninth page.

The statistics in relation to the proportion to population of persons married in 1900, in each of the towns and general divisions of the State, may be found in Tables XV and XVI, on pages 132 and 135.

The following Table will present the number of marriages, and the ratio of marriage to population, in each year for a period of forty-one years, 1860 to 1900, inclusive :



TABLE XXXI.

| YEARS.    | Number Marriages. | Of Population, one Person Married in every | Persons Married per 1,000 of Population. | YEARS.            | Number Marriages. | Of Population, one Person Married in every | Persons Married per 1,000 of Population. |
|-----------|-------------------|--------------------------------------------|------------------------------------------|-------------------|-------------------|--------------------------------------------|------------------------------------------|
| 1860..... | 1,748             | 50.0                                       | 20.0                                     | 1882.....         | 2,634             | 52.5                                       | 19.0                                     |
| 1861..... | 1,533             | 56.8                                       | 17.6                                     | 1883.....         | 2,611             | 54.4                                       | 18.3                                     |
| 1862..... | 1,450             | 61.1                                       | 15.1                                     | 1884.....         | 2,558             | 58.1                                       | 17.2                                     |
| 1863..... | 1,618             | 54.7                                       | 18.3                                     | 1885.....         | 2,488             | 61.3                                       | 16.3                                     |
| 1864..... | 1,844             | 50.1                                       | 19.9                                     | 1886.....         | 2,750             | 56.5                                       | 17.7                                     |
| 1865..... | 1,896             | 48.7                                       | 20.5                                     | 1887.....         | 2,839             | 55.8                                       | 18.0                                     |
| 1866..... | 2,318             | 39.9                                       | 25.1                                     | 1888.....         | 3,022             | 53.5                                       | 18.7                                     |
| 1867..... | 2,344             | 39.8                                       | 25.1                                     | 1889.....         | 3,029             | 57.8                                       | 17.3                                     |
| 1868..... | 2,285             | 40.5                                       | 24.8                                     | 1890.....         | 3,195             | 54.1                                       | 18.4                                     |
| 1869..... | 2,289             | 47.5                                       | 21.1                                     | 1891.....         | 3,320             | 53.5                                       | 18.5                                     |
| 1870..... | 2,362             | 46.0                                       | 21.7                                     | 1892.....         | 3,502             | 52.4                                       | 19.1                                     |
| 1871..... | 2,336             | 46.5                                       | 21.5                                     | 1893.....         | 3,544             | 53.6                                       | 18.7                                     |
| 1872..... | 2,537             | 42.9                                       | 23.2                                     | 1894.....         | 3,271             | 57.4                                       | 17.4                                     |
| 1873..... | 2,630             | 41.3                                       | 24.2                                     | 1895.....         | 3,497             | 55.0                                       | 18.2                                     |
| 1874..... | 2,541             | 50.8                                       | 19.6                                     | 1896.....         | 3,327             | 59.2                                       | 17.0                                     |
| 1875..... | 2,485             | 52.0                                       | 19.2                                     | 1897.....         | 3,137             | 64.3                                       | 15.6                                     |
| 1876..... | 2,253             | 57.3                                       | 17.5                                     | 1898.....         | 3,278             | 63.2                                       | 15.8                                     |
| 1877..... | 2,282             | 56.6                                       | 17.7                                     | 1899.....         | 3,433             | 61.6                                       | 16.2                                     |
| 1878..... | 2,324             | 55.7                                       | 17.9                                     | 1900.....         | 3,936             | 54.4                                       | 18.4                                     |
| 1879..... | 2,396             | 57.8                                       | 17.5                                     |                   |                   |                                            |                                          |
| 1880..... | 2,769             | 49.9                                       | 20.0                                     | Annual average... |                   | 53.9                                       | 18.4                                     |
| 1881..... | 2,750             | 50.3                                       | 19.9                                     |                   |                   |                                            |                                          |

## SEASON.

The following Table will show the number and percentage of marriages in Rhode Island, in each month and each quarter of the year 1900, together with the aggregate number and percentage in each quarter for forty-seven years, viz., from 1854 to 1900, inclusive:

TABLE XXXII.

| MONTHS.        | Number of marriages,<br>each month, 1900. | Number of Mar-<br>riages each Quar-<br>ter, 1900. | Percentage of each<br>Quarter to total<br>Marriages, 1900. | Number of Mar-<br>riages per Quarter,<br>47 yrs., 1854-1900. | Percentage each Quar-<br>ter, 47 years. |
|----------------|-------------------------------------------|---------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------|
| January.....   | 326}                                      | 1st Quarter....763                                | 19.38                                                      | 1st Quarter...34,913                                         | 21.31                                   |
| February.....  | 308}                                      |                                                   |                                                            |                                                              |                                         |
| March.....     | 129}                                      |                                                   |                                                            |                                                              |                                         |
| April.....     | 331}                                      | 2d Quarter...1,113                                | 28.28                                                      | 2d Quarter...30,366                                          | 25.95                                   |
| May.....       | 255}                                      |                                                   |                                                            |                                                              |                                         |
| June.....      | 527}                                      |                                                   |                                                            |                                                              |                                         |
| July.....      | 277}                                      | 3d Quarter....952                                 | 24.19                                                      | 3d Quarter...27,381                                          | 23.43                                   |
| August.....    | 281}                                      |                                                   |                                                            |                                                              |                                         |
| September..... | 394}                                      |                                                   |                                                            |                                                              |                                         |
| October.....   | 409}                                      | 4th Quarter..1,108                                | 28.15                                                      | 4th Quarter...34,274                                         | 29.31                                   |
| November.....  | 434}                                      |                                                   |                                                            |                                                              |                                         |
| December.....  | 265}                                      |                                                   |                                                            |                                                              |                                         |
| Total....      | .....                                     | 3,936                                             | 100.00                                                     | * 116,954                                                    | 100.00                                  |

The largest number of marriages in any one month, during 1900, occurred in the month of June. For thirty-eight years previous to 1892 the greatest number of marriages was in the month of November. Since then, with the exception of in 1895 and 1899, the greatest number of marriages has been in the month of June. The rule has been as follows: the largest proportion in the last quarter; the next largest in the second quarter; followed by the third quarter; and, finally, the first quarter having the smallest proportion of any. In 1893, 1894, 1896, and 1900, the largest proportion was in the second quarter.

During 1900 the proportions in the different quarters, from the largest to the smallest, were as follows: second quarter, 28.28 per cent.; fourth quarter, 28.15 per cent.; third quarter, 24.19 per cent.; first quarter, 19.38 per cent.

#### NATIVITY OF PERSONS MARRIED.

The following Table shows the *number* of marriages, according to the nativities of the parties, for each of the last four years, and

\* Including 20, date not given, recorded previous to 1860.

also for the aggregate of twenty-five years, from 1858 to 1882, inclusive; of five years, from 1883 to 1887, inclusive; of five years, from 1888 to 1892, inclusive; and for five years, from 1893 to 1897, inclusive:

TABLE XXXIII.

| BIRTH-PLACE.                     | 1900. | 1899. | 1898. | 1897. | 5 years,<br>1893 to<br>1897.<br>Total. | 5 years,<br>1888 to<br>1892.<br>Total. | 5 years,<br>1883 to<br>1887.<br>Total. | 25 years,<br>1858 to<br>1882.<br>Total. |
|----------------------------------|-------|-------|-------|-------|----------------------------------------|----------------------------------------|----------------------------------------|-----------------------------------------|
| United States.....               | 1,800 | 1,658 | 1,522 | 1,494 | 7,846                                  | 7,813                                  | 7,157                                  | 33,553                                  |
| Foreign countries.....           | 1,156 | 972   | 991   | 942   | 5,318                                  | 4,973                                  | 3,601                                  | 13,753                                  |
| Native groom, foreign bride..... | 499   | 411   | 402   | 344   | 1,785                                  | 1,637                                  | 1,323                                  | 3,488                                   |
| Foreign groom, native bride..... | 481   | 392   | 363   | 357   | 1,827                                  | 1,645                                  | 1,165                                  | 3,876                                   |
| Not stated.....                  |       |       |       |       |                                        |                                        |                                        | 64                                      |
| Total.....                       | 3,936 | 3,433 | 3,278 | 3,137 | 16,776                                 | 16,068                                 | 13,246                                 | 54,734                                  |

It will be understood that in the above enumerations the *parent nativity* of the persons married is not considered, but the country where born.

Parties born in the United States, although children of foreign born parents, are reckoned as natives.

In the following Table are given the *percentages* by birth, of native, foreign, and mixed marriages, in each of the last four years, and in the aggregate of five years, 1893 to 1897, inclusive; of five years, 1888 to 1892, inclusive; of five years, 1883 to 1887, inclusive; and twenty-five years, 1858 to 1882, inclusive:

TABLE XXXIV.

| BIRTH-PLACE.           | 1900.  | 1899.  | 1898.  | 1897.  | 5 years,<br>1893-1897. | 5 years,<br>1888-1892. | 5 years,<br>1883-1887. | 25 years,<br>1858-1882. |
|------------------------|--------|--------|--------|--------|------------------------|------------------------|------------------------|-------------------------|
| United States.....     | 45.73  | 48.30  | 46.43  | 47.62  | 46.81                  | 48.62                  | 54.02                  | 61.30                   |
| Foreign countries..... | 29.37  | 28.31  | 30.23  | 30.03  | 31.65                  | 30.95                  | 27.19                  | 25.13                   |
| Mixed nativity.....    | 24.90  | 23.39  | 23.31  | 22.35  | 21.54                  | 20.43                  | 18.79                  | 13.57                   |
| Total .....            | 100.00 | 100.00 | 100.00 | 100.00 | 100.00                 | 100.00                 | 100.00                 | 100.00                  |

It will be of some interest to notice that by the exhibit of the two preceding Tables it is shown that, although the marriages of

the native born (whether the issue of foreign born parents or natives) have, as a rule, *increased in numbers*, they have also steadily *decreased in proportion*, with two or three exceptional years, that is, to the whole number of marriages; while the marriages of the class of the exclusively foreign born have been, for the past thirty years, gradually increasing in proportion.

*Denominational.*—The 3,936 marriages in 1900 were performed by clergymen of various denominations, or by civil authority, as follows:

#### DENOMINATIONAL.

|                             |       |                              |       |
|-----------------------------|-------|------------------------------|-------|
| Roman Catholic .....        | 1,696 | Unitarian.....               | 12    |
| Baptist.....                | 600   | Advent Christian.....        | 9     |
| Protestant Episcopal.....   | 143   | Primitive Methodist.....     | 8     |
| Congregational.....         | 362   | Armenian.....                | 8     |
| Methodist.....              | 268   | Independent.....             | 6     |
| Free Baptist.....           | 118   | Latter Day Saints.....       | 6     |
| Universalist.....           | 78    | Evangelical.....             | 4     |
| Lutheran.....               | 68    | Second Advent.....           | 4     |
| Justices Supreme Court..... | 48    | Friends' Ceremony.....       | 2     |
| Christian.....              | 44    | Swedenborgian.....           | 2     |
| Hebrew.....                 | 10    | Pentecostal.....             | 1     |
| Presbyterian.....           | 38    | Denomination not stated..... | 6     |
| Advent.....                 | 24    |                              |       |
| Seventh Day Baptist.....    | 23    | Total.....                   | 3,936 |
| United Presbyterian.....    | 18    |                              |       |

## AGES OF THE MARRIED.

In the following Table the varying ages of persons married during 1900 are presented:

TABLE XXXV.

| AGES OF GROOMS.       | AGES OF BRIDES. |           |           |           |           |           |           |           |           |           |           | Number of Grooms. |
|-----------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------|
|                       | Under 20.       | 20 to 25. | 25 to 30. | 30 to 35. | 35 to 40. | 40 to 45. | 45 to 50. | 50 to 55. | 55 to 60. | 60 to 65. | 65 to 70. |                   |
| Under 20.....         | 59              | 31        | 3         | .....     | .....     | .....     | .....     | .....     | .....     | .....     | .....     | 93                |
| 20 to 25.....         | 390             | 778       | 130       | 23        | 4         | .....     | .....     | .....     | .....     | .....     | .....     | 1,325             |
| 25 to 30.....         | 148             | 578       | 431       | 80        | 17        | 2         | 2         | ..        | 1         | .....     | .....     | 1,259             |
| 30 to 35.....         | 28              | 186       | 198       | 119       | 34        | 15        | 1         | .....     | .....     | .....     | .....     | 581               |
| 35 to 40.....         | 7               | 53        | 83        | 69        | 42        | 12        | 4         | 1         | .....     | .....     | .....     | 271               |
| 40 to 45.....         | 3               | 20        | 28        | 27        | 34        | 21        | 10        | 3         | .....     | .....     | .....     | 146               |
| 45 to 50.....         | .....           | 5         | 12        | 14        | 24        | 25        | 11        | 3         | 3         | .....     | .....     | 97                |
| 50 to 55.....         | .....           | 3         | 6         | 10        | 13        | 8         | 17        | 7         | 4         | .....     | .....     | 68                |
| 55 to 60.....         | .....           | 2         | 4         | 6         | 5         | 7         | 8         | 10        | 6         | 1         | ..        | 49                |
| 60 to 65.....         | .....           | .....     | .....     | 2         | ..        | 1         | 4         | 6         | 3         | 2         | ..        | 18                |
| 65 to 70.....         | .....           | 1         | ...       | 3         | ...       | 3         | 1         | 4         | 6         | 2         | 2         | 22                |
| 70 to 75.....         | 1               | .....     | 1         | 1         | .....     | .....     | .....     | 1         | 1         | 1         | ..        | 6                 |
| 75 to 80.....         | .....           | .....     | .....     | .....     | .....     | .....     | .....     | .....     | 1         | .....     | .....     | 1                 |
| Number of Brides..... | 636             | 1,657     | 896       | 354       | 173       | 94        | 58        | 35        | 25        | 6         | 2         | 3,936             |

The extreme discrepancies in the ages of some couples married in 1900 were not so frequent as in some previous years.

The same results in 1900, in relation to numbers in the different age periods, may be presented in a different and perhaps clearer way as follows :

TABLE XXXVI.

| 1900.              | Under 20. | 20 to 25. | 25 to 30. | 30 to 35. | 35 to 40. | 40 to 45. | 45 to 50. | 50 to 55. | 55 to 60. | 60 to 65. | 65 to 70. | 70 to 75. | 75 to 80. |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Males.....         | 93        | 1,325     | 1,259     | 581       | 271       | 146       | 97        | 68        | 49        | 18        | 22        | 6         | 1         |
| Females.....       | 636       | 1,657     | 896       | 354       | 173       | 94        | 58        | 35        | 25        | 6         | 2         | .....     | .....     |
| Total persons..... | 729       | 2,982     | 2,155     | 935       | 444       | 240       | 155       | 103       | 74        | 24        | 24        | 6         | 1         |

The whole number of persons in each division of ages, of both sexes, married in Rhode Island in each of the last thirty-five years, that is, from 1866 to 1900, inclusive, is presented in the following Table :



TABLE XXXVII.

| YEARS.    | Under 20. | 20 to 25. | 25 to 30. | 30 to 35. | 35 to 40. | 40 to 45. | 45 to 50. | 50 to 55. | 55 to 60. | 60 to 65. | 65 to 70. | 70 to 75. | 75 to 80. | 80 to 85. | 85 to 90. | Not stated. |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
| 1866..... | 693       | 1,931     | 1,025     | 419       | 213       | 127       | 81        | 59        | 25        | 21        | 12        | 1         | ....      | ....      | ....      | 23          |
| 1867..... | 696       | 1,886     | 1,104     | 416       | 211       | 148       | 91        | 48        | 37        | 18        | 18        | 5         | 3         | 1         | ....      | 9           |
| 1868..... | 644       | 1,835     | 1,050     | 432       | 219       | 133       | 82        | 61        | 30        | 29        | 11        | 8         | 4         | ....      | ....      | 32          |
| 1869..... | 642       | 1,814     | 1,051     | 468       | 227       | 134       | 79        | 46        | 35        | 15        | 11        | 2         | 3         | 2         | ....      | 49          |
| 1870..... | 744       | 1,883     | 1,084     | 415       | 216       | 159       | 86        | 64        | 26        | 24        | 12        | 3         | 2         | ....      | ....      | 6           |
| 1871..... | 697       | 1,914     | 1,118     | 392       | 228       | 115       | 73        | 56        | 35        | 22        | 6         | 7         | 3         | ....      | ....      | 6           |
| 1872..... | 786       | 2,073     | 1,182     | 434       | 237       | 131       | 81        | 61        | 43        | 21        | 13        | 6         | 1         | ....      | ....      | 5           |
| 1873..... | 762       | 2,177     | 1,156     | 507       | 253       | 140       | 87        | 68        | 35        | 24        | 12        | 6         | 6         | ....      | ....      | 27          |
| 1874..... | 770       | 1,992     | 1,179     | 459       | 268       | 159       | 101       | 52        | 36        | 39        | 8         | 9         | 1         | ....      | ....      | 9           |
| 1875..... | 681       | 2,058     | 1,108     | 475       | 252       | 150       | 101       | 60        | 32        | 29        | 13        | 4         | 1         | ....      | ....      | 6           |
| 1876..... | 691       | 1,741     | 1,041     | 450       | 224       | 154       | 80        | 53        | 27        | 19        | 12        | 1         | 2         | ....      | ....      | 9           |
| 1877..... | 631       | 1,745     | 1,118     | 459       | 244       | 125       | 92        | 52        | 46        | 14        | 15        | 11        | 2         | 1         | ....      | 9           |
| 1878..... | 618       | 1,832     | 1,123     | 441       | 259       | 162       | 74        | 49        | 39        | 20        | 17        | 2         | 4         | ....      | ....      | 8           |
| 1879..... | 639       | 1,879     | 1,156     | 481       | 272       | 123       | 78        | 56        | 39        | 26        | 18        | 9         | 2         | 2         | 1         | 11          |
| 1880..... | 688       | 2,301     | 1,262     | 556       | 329       | 163       | 91        | 65        | 33        | 27        | 15        | 3         | 3         | 1         | ....      | 1           |
| 1881..... | 599       | 2,208     | 1,410     | 547       | 298       | 187       | 107       | 54        | 34        | 31        | 16        | 5         | 1         | 1         | ....      | 2           |
| 1882..... | 498       | 2,125     | 1,377     | 563       | 301       | 161       | 102       | 57        | 36        | 27        | 11        | 5         | 3         | 2         | ....      | ....        |
| 1883..... | 497       | 2,108     | 1,370     | 486       | 319       | 183       | 115       | 73        | 31        | 20        | 14        | 3         | 2         | 1         | ....      | ....        |
| 1884..... | 484       | 2,027     | 1,289     | 569       | 307       | 152       | 114       | 64        | 48        | 30        | 23        | 6         | 3         | ....      | ....      | ....        |
| 1885..... | 438       | 1,973     | 1,296     | 540       | 309       | 163       | 102       | 57        | 45        | 27        | 13        | 7         | 3         | ....      | 1         | 2           |
| 1886..... | 505       | 2,133     | 1,552     | 603       | 283       | 174       | 103       | 73        | 24        | 26        | 18        | 5         | 1         | ....      | ....      | ....        |
| 1887..... | 501       | 2,308     | 1,552     | 607       | 294       | 162       | 114       | 49        | 39        | 23        | 19        | 7         | 3         | ....      | ....      | ....        |
| 1888..... | 582       | 2,427     | 1,608     | 640       | 330       | 207       | 105       | 60        | 36        | 17        | 23        | 7         | 2         | ....      | ....      | ....        |
| 1889..... | 543       | 2,463     | 1,492     | 712       | 379       | 182       | 121       | 66        | 45        | 8         | 16        | 9         | ....      | 2         | ....      | ....        |
| 1890..... | 596       | 2,693     | 1,632     | 673       | 320       | 206       | 102       | 69        | 41        | 29        | 20        | 7         | 2         | ....      | ....      | ....        |
| 1891..... | 685       | 3,141     | 1,442     | 635       | 315       | 158       | 115       | 64        | 35        | 21        | 17        | 6         | 1         | 1         | ....      | 4           |
| 1892..... | 668       | 3,011     | 1,729     | 732       | 389       | 201       | 122       | 60        | 35        | 30        | 14        | 4         | 3         | ....      | ....      | 6           |
| 1893..... | 676       | 2,777     | 1,869     | 776       | 436       | 237       | 133       | 79        | 47        | 39        | 9         | 8         | ....      | 1         | 1         | ....        |
| 1894..... | 613       | 2,760     | 1,613     | 680       | 375       | 183       | 150       | 74        | 39        | 29        | 17        | 3         | 5         | 1         | ....      | ....        |
| 1895..... | 607       | 2,763     | 1,887     | 767       | 417       | 227       | 142       | 83        | 49        | 22        | 12        | 13        | 4         | 1         | ....      | ....        |
| 1896..... | 617       | 2,647     | 1,841     | 713       | 352       | 204       | 121       | 61        | 45        | 24        | 18        | 5         | 3         | ....      | ....      | ....        |
| 1897..... | 542       | 2,490     | 1,746     | 659       | 359       | 184       | 125       | 81        | 38        | 22        | 15        | 9         | 3         | 1         | ....      | ....        |
| 1898..... | 579       | 2,639     | 1,795     | 675       | 394       | 187       | 127       | 82        | 38        | 20        | 10        | 7         | 3         | ....      | ....      | ....        |
| 1899..... | 587       | 2,720     | 1,871     | 810       | 361       | 201       | 149       | 59        | 54        | 31        | 11        | 8         | 3         | 1         | ....      | ....        |
| 1900..... | 729       | 2,982     | 2,155     | 935       | 444       | 240       | 155       | 103       | 74        | 24        | 24        | 6         | 1         | ....      | ....      | ....        |

In the following Table will be found the number and proportion of the persons married under 20 years of age, both sexes, in nine periods of five years each, from 1856 to 1900, inclusive; for the whole period of forty-five years, and in 1897, 1898, 1899, and 1900.

TABLE XXXVIII.

| 5-YEAR PERIODS.          | Total number of persons married. | Persons married under 20. | Percentage under 20. |
|--------------------------|----------------------------------|---------------------------|----------------------|
| 1856-1860.....           | 15,838                           | 3,294                     | 20.79                |
| 1861-1865.....           | 16,682                           | 2,406                     | 14.42                |
| 1866-1870.....           | 23,196                           | 3,419                     | 14.71                |
| 1871-1875.....           | 25,058                           | 3,696                     | 14.75                |
| 1876-1880.....           | 24,048                           | 3,267                     | 13.59                |
| 1881-1885.....           | 26,082                           | 2,516                     | 9.65                 |
| 1886-1890.....           | 29,670                           | 2,727                     | 9.19                 |
| 1891-1895.....           | 34,268                           | 3,249                     | 9.48                 |
| 1896-1900.....           | 34,226                           | 3,051                     | 8.92                 |
| 45 years, 1856-1900..... | 229,068                          | 27,628                    | 12.06                |
| 1897.....                | 6,274                            | 542                       | 8.64                 |
| 1898.....                | 6,556                            | 579                       | 8.83                 |
| 1899.....                | 6,866                            | 587                       | 8.69                 |
| 1900.....                | 7,876                            | 729                       | 9.26                 |

Per cent., first fifteen years .....16.37

Per cent., second fifteen years.....12.60

Per cent., last four years ..... 8.81

## PROPORTION TO SEX.

Table exhibiting the percentages of GROOMS in each division of ages, in each of the last forty-one years :

TABLE XXXIX.

| YEARS.    | Under 20. | 20 to 25. | 25 to 30. | 30 to 40. | 40 to 50. | 50 and over. | Total. |
|-----------|-----------|-----------|-----------|-----------|-----------|--------------|--------|
| 1860..... | 5.0       | 42.8      | 26.9      | 16.3      | 5.7       | 3.3          | 100.0  |
| 1861..... | 4.6       | 44.5      | 25.4      | 15.5      | 5.8       | 4.2          | 100.0  |
| 1862..... | 4.2       | 37.8      | 27.9      | 18.3      | 5.9       | 5.9          | 100.0  |
| 1863..... | 3.5       | 38.0      | 29.6      | 17.2      | 5.8       | 5.9          | 100.0  |
| 1864..... | 4.3       | 38.8      | 27.3      | 17.9      | 7.4       | 4.3          | 100.0  |
| 1865..... | 3.5       | 37.0      | 28.4      | 18.9      | 7.5       | 4.7          | 100.0  |
| 1866..... | 5.3       | 40.9      | 27.0      | 16.4      | 6.3       | 4.1          | 100.0  |
| 1867..... | 4.3       | 40.1      | 27.9      | 16.8      | 6.8       | 4.1          | 100.0  |
| 1868..... | 4.1       | 39.9      | 28.2      | 17.1      | 6.1       | 4.6          | 100.0  |
| 1869..... | 4.3       | 39.6      | 27.7      | 18.5      | 6.1       | 3.8          | 100.0  |
| 1870..... | 4.8       | 40.4      | 28.1      | 16.0      | 6.4       | 4.3          | 100.0  |
| 1871..... | 5.3       | 40.1      | 28.9      | 16.5      | 4.9       | 4.3          | 100.0  |
| 1872..... | 4.3       | 41.3      | 28.2      | 16.6      | 5.2       | 4.4          | 100.0  |
| 1873..... | 3.8       | 42.4      | 26.7      | 17.0      | 6.0       | 4.1          | 100.0  |
| 1874..... | 4.1       | 40.4      | 27.2      | 17.5      | 6.4       | 4.4          | 100.0  |
| 1875..... | 3.5       | 40.9      | 27.8      | 17.6      | 6.1       | 4.2          | 100.0  |
| 1876..... | 5.1       | 37.5      | 28.6      | 17.9      | 5.6       | 4.3          | 100.0  |
| 1877..... | 4.3       | 36.0      | 30.2      | 18.7      | 5.9       | 6.9          | 100.0  |
| 1878..... | 3.9       | 38.5      | 29.0      | 18.0      | 6.3       | 4.3          | 100.0  |
| 1879..... | 3.9       | 37.8      | 28.8      | 19.3      | 5.4       | 4.8          | 100.0  |
| 1880..... | 3.6       | 38.9      | 27.5      | 19.9      | 5.8       | 4.3          | 100.0  |
| 1881..... | 2.8       | 37.2      | 29.7      | 19.5      | 6.8       | 4.0          | 100.0  |
| 1882..... | 2.2       | 36.0      | 31.4      | 20.0      | 6.1       | 4.3          | 100.0  |
| 1883..... | 2.9       | 36.2      | 31.7      | 17.7      | 7.2       | 4.3          | 100.0  |
| 1884..... | 2.5       | 36.2      | 29.1      | 21.1      | 6.2       | 5.0          | 100.0  |
| 1885..... | 2.6       | 34.7      | 30.2      | 20.9      | 6.8       | 4.8          | 100.0  |
| 1886..... | 2.5       | 35.2      | 31.9      | 19.6      | 6.8       | 4.0          | 100.0  |
| 1887..... | 1.7       | 37.1      | 31.6      | 19.6      | 6.2       | 3.8          | 100.0  |
| 1888..... | 2.8       | 36.1      | 31.1      | 19.8      | 6.5       | 3.7          | 100.0  |
| 1889..... | 2.3       | 37.6      | 27.8      | 21.3      | 6.6       | 4.4          | 100.0  |
| 1890..... | 3.3       | 36.9      | 30.8      | 18.9      | 6.1       | 4.0          | 100.0  |
| 1891..... | 3.2       | 41.7      | 26.4      | 17.2      | 5.2       | 3.3          | 100.0  |
| 1892..... | 2.3       | 40.1      | 29.3      | 19.0      | 6.1       | 3.2          | 100.0  |
| 1893..... | 2.9       | 35.3      | 30.7      | 21.0      | 6.2       | 3.8          | 100.0  |
| 1894..... | 3.0       | 37.4      | 29.3      | 19.9      | 6.8       | 3.6          | 100.0  |
| 1895..... | 2.2       | 36.0      | 30.6      | 21.0      | 6.3       | 3.9          | 100.0  |
| 1896..... | 2.1       | 35.5      | 33.2      | 19.6      | 6.1       | 3.5          | 100.0  |
| 1897..... | 2.3       | 35.5      | 32.6      | 19.3      | 6.3       | 4.0          | 100.0  |
| 1898..... | 2.4       | 36.4      | 31.8      | 19.8      | 6.1       | 3.5          | 100.0  |
| 1899..... | 2.3       | 35.0      | 30.9      | 21.6      | 6.6       | 3.6          | 100.0  |
| 1900..... | 2.4       | 33.6      | 32.0      | 21.6      | 6.2       | 4.2          | 100.0  |

GROOMS.

Table exhibiting the percentages of BRIDES in each division of ages, in each of the last forty-one years:

TABLE XL.

| YEARS.    | AGES.     |           |           |           |           |              | Total. |
|-----------|-----------|-----------|-----------|-----------|-----------|--------------|--------|
|           | Under 20. | 20 to 25. | 25 to 30. | 30 to 40. | 40 to 50. | 50 and over. |        |
| 1860..... | 25.8      | 44.1      | 17.0      | 9.1       | 2.6       | 1.4          | 100.0  |
| 1861..... | 29.6      | 42.0      | 15.2      | 7.8       | 4.1       | 1.3          | 100.0  |
| 1862..... | 24.9      | 41.3      | 16.7      | 11.8      | 4.1       | 1.2          | 100.0  |
| 1863..... | 24.9      | 42.6      | 16.9      | 9.8       | 4.1       | 1.7          | 100.0  |
| 1864..... | 24.2      | 43.4      | 17.8      | 10.3      | 2.9       | 1.4          | 100.0  |
| 1865..... | 22.6      | 43.3      | 19.1      | 11.0      | 3.5       | 1.5          | 100.0  |
| 1866..... | 24.7      | 42.9      | 17.4      | 11.0      | 2.7       | 1.3          | 100.0  |
| 1867..... | 25.4      | 40.5      | 19.3      | 10.0      | 3.4       | 1.4          | 100.0  |
| 1868..... | 24.4      | 40.9      | 18.1      | 11.6      | 3.3       | 1.7          | 100.0  |
| 1869..... | 24.1      | 40.5      | 18.7      | 12.1      | 3.4       | 1.2          | 100.0  |
| 1870..... | 26.8      | 39.4      | 17.9      | 10.8      | 3.9       | 1.2          | 100.0  |
| 1871..... | 24.6      | 41.9      | 19.1      | 10.1      | 3.1       | 1.2          | 100.0  |
| 1872..... | 26.7      | 40.5      | 18.4      | 9.9       | 2.2       | 1.3          | 100.0  |
| 1873..... | 25.3      | 40.8      | 17.5      | 12.0      | 2.7       | 1.7          | 100.0  |
| 1874..... | 26.3      | 38.1      | 19.3      | 11.1      | 3.9       | 1.3          | 109.0  |
| 1875..... | 23.9      | 42.1      | 16.8      | 11.8      | 4.0       | 1.4          | 100.0  |
| 1876..... | 25.6      | 39.8      | 17.6      | 12.0      | 3.7       | 1.3          | 100.0  |
| 1877..... | 23.4      | 40.4      | 18.8      | 12.1      | 3.6       | 1.7          | 100.0  |
| 1878..... | 22.7      | 40.4      | 19.3      | 12.2      | 8.8       | 1.6          | 100.0  |
| 1879..... | 22.8      | 40.7      | 19.4      | 12.1      | 3.0       | 2.0          | 100.0  |
| 1880..... | 21.1      | 44.2      | 18.0      | 12.0      | 3.3       | 1.4          | 100.0  |
| 1881..... | 19.0      | 43.0      | 21.5      | 11.2      | 3.8       | 1.5          | 100.0  |
| 1882..... | 16.7      | 44.8      | 20.9      | 12.6      | 3.9       | 1.1          | 100.0  |
| 1883..... | 16.2      | 44.2      | 20.6      | 13.2      | 4.3       | 1.5          | 100.0  |
| 1884..... | 16.4      | 43.0      | 21.3      | 13.2      | 4.2       | 1.9          | 100.0  |
| 1885..... | 14.9      | 44.6      | 21.8      | 13.2      | 3.8       | 1.7          | 100.0  |
| 1886..... | 15.8      | 42.4      | 24.5      | 12.5      | 3.3       | 1.5          | 100.0  |
| 1887..... | 15.9      | 41.1      | 22.8      | 12.1      | 3.5       | 1.6          | 100.0  |
| 1888..... | 16.4      | 44.3      | 22.1      | 12.4      | 3.7       | 1.1          | 100.0  |
| 1889..... | 15.1      | 43.7      | 21.5      | 14.7      | 3.4       | 1.6          | 100.0  |
| 1890..... | 15.4      | 47.3      | 20.4      | 12.0      | 3.6       | 1.3          | 100.0  |
| 1891..... | 17.4      | 49.9      | 17.0      | 11.4      | 3.1       | 1.2          | 100.0  |
| 1892..... | 16.8      | 45.9      | 20.1      | 13.0      | 3.1       | 1.1          | 100.0  |
| 1893..... | 16.2      | 43.0      | 22.0      | 13.3      | 4.1       | 1.4          | 100.0  |
| 1894..... | 15.7      | 47.0      | 20.0      | 12.3      | 3.4       | 1.6          | 100.0  |
| 1895..... | 15.2      | 43.0      | 23.4      | 12.8      | 4.3       | 1.3          | 100.0  |
| 1896..... | 16.4      | 44.1      | 22.1      | 12.4      | 3.8       | 1.2          | 100.0  |
| 1897..... | 14.9      | 43.9      | 23.1      | 13.2      | 3.5       | 1.4          | 100.0  |
| 1898..... | 15.3      | 44.1      | 22.9      | 12.9      | 3.4       | 1.4          | 100.0  |
| 1899..... | 14.8      | 44.3      | 23.6      | 12.5      | 3.6       | 1.2          | 100.0  |
| 1900..... | 16.2      | 42.1      | 22.7      | 13.4      | 3.9       | 1.7          | 100.0  |

It will be noticed in the preceding tables that the proportions of persons married of both sexes, under 20 years of age, largely decreased during the last decade.

Of grooms, the proportion, compared with the first decade, has decreased over 40 per cent., and of females over 38 per cent.

The proportion of males married, between the ages of twenty and twenty-five, has decreased over 6 per cent., and has correspondingly increased in the more advanced age periods.

The proportion of females married, between twenty and twenty-five years of age, has not varied much, while of those between twenty-five and forty there has been an increase of proportion similar to that of males.

### NUMBER OF TIMES MARRIED.

There will be found in the following Table the number of grooms and of brides who were married for the first, second, third, etc., time in 1900.

TABLE XLI.

|             | First<br>Marriage. | Second<br>Marriage. | Third<br>Marriage. | Fourth<br>Marriage. | Total. |
|-------------|--------------------|---------------------|--------------------|---------------------|--------|
| Grooms..... | 3,329              | 566                 | 40                 | 1                   | 3,936  |
| Brides..... | 3,467              | 447                 | 21                 | 1                   | 3,936  |

The proportion of *grooms* married for the first time, in 1900, was 84.6 per cent. of the whole number, and the proportion of *brides* married for the first time was 88.1 per cent.

The following Table will show not only the number of times each of the parties was married, but also the number of bachelors and widowers who married spinsters, the number who married widows of first or second widowhood, etc., and of spinsters and widows who married bachelors, and widows of the second, third, or fourth marriage, etc.:

TABLE XLII.

| GROOMS.               | BRIDES. |         |        |         | Total Grooms. |
|-----------------------|---------|---------|--------|---------|---------------|
|                       | First.  | Second. | Third. | Fourth. |               |
| First Marriage .....  | 3,122   | 200     | 7      | .....   | 3,329         |
| Second Marriage.....  | 336     | 217     | 12     | 1       | 566           |
| Third Marriage.....   | 9       | 29      | 2      | .....   | 40            |
| Fourth Marriage ..... | .....   | 1       | .....  | .....   | 1             |
| Total brides.....     | 3,467   | 447     | 21     | 1       | 3,936         |

It will be seen, by Table XLII, that 207 bachelors married widows, 7 of whom married brides that had been twice married. Of the 607 widowers who married in 1900, 345 married spinsters, and 262 married widows. Of the widows who married widowers, 14 had been twice married, and 1 three times previously.

#### MARRIAGES OF PERSONS OF COLOR.

The number of marriages of persons of color in Rhode Island, in 1900, was 122. This includes six marriages in which one of the parties was white. The number and color of the individuals were, therefore, 239 persons of color and 6 persons white. Of the white persons 2 were males and 4 were females. The marriages, however, may be properly included in the above class, inasmuch as the offspring of such marriages are persons of color.

The number reported during 1900, from the different towns, was as follows, viz.:

|                            |     |
|----------------------------|-----|
| Bristol.....               | 1   |
| East Greenwich.....        | 2   |
| Newport City.....          | 14  |
| Portsmouth.....            | 3   |
| Tiverton.....              | 1   |
| Central Falls.....         | 1   |
| East Providence.....       | 4   |
| Lincoln.....               | 1   |
| Pawtucket.....             | 2   |
| Providence City.....       | 86  |
| Narragansett District..... | 2   |
| North Kingstown.....       | 1   |
| South Kingstown.....       | 2   |
| Westerly.....              | 2   |
| Total.....                 | 122 |



## MARRIAGES OF THE DIVORCED.

The following Table will give the towns from which returns of marriage with the facts of divorce were reported during 1900, the whole number of marriages of divorced persons, whether of one or both parties; also whether the second or third marriage of the divorced groom or bride:

TABLE XLIII.

| TOWNS.                     | Number of Marriages. | Number of Divorced Persons Married. | Grooms. | Brides. | Second Marriage of Groom. | Third Marriage of Groom. | Second Marriage of Bride. | Third Marriage of Bride. | Fourth Marriage of Bride. |
|----------------------------|----------------------|-------------------------------------|---------|---------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|
| PROVIDENCE CITY.....       | 129                  | 143                                 | 64      | 79      | 59                        | 5                        | 71                        | 7                        | 1                         |
| Bristol.....               | 1                    | 1                                   | 1       | 1       | 1                         | .....                    | .....                     | .....                    | .....                     |
| Coventry.....              | 3                    | 3                                   | 1       | 2       | 1                         | .....                    | 2                         | .....                    | .....                     |
| East Greenwich.....        | 1                    | 1                                   | 1       | .....   | 1                         | .....                    | .....                     | .....                    | .....                     |
| Warwick.....               | 6                    | 6                                   | 2       | 4       | 2                         | .....                    | 4                         | .....                    | .....                     |
| Jamestown.....             | 1                    | 1                                   | .....   | 1       | .....                     | .....                    | 1                         | .....                    | .....                     |
| NEWPORT CITY.....          | 7                    | 9                                   | 6       | 3       | 6                         | .....                    | 3                         | .....                    | .....                     |
| New Shoreham.....          | 1                    | 2                                   | 1       | 1       | 1                         | .....                    | .....                     | 1                        | .....                     |
| Portsmouth.....            | 2                    | 2                                   | 1       | 1       | 1                         | .....                    | 1                         | .....                    | .....                     |
| CENTRAL FALLS.....         | 2                    | 2                                   | 2       | .....   | 2                         | .....                    | .....                     | .....                    | .....                     |
| Cranston.....              | 5                    | 5                                   | 1       | 4       | 1                         | .....                    | 4                         | .....                    | .....                     |
| Cumberland.....            | 3                    | 3                                   | 1       | 2       | 1                         | .....                    | 2                         | .....                    | .....                     |
| East Providence.....       | 8                    | 10                                  | 6       | 4       | 6                         | .....                    | 4                         | .....                    | .....                     |
| Foster.....                | 1                    | 1                                   | 1       | .....   | 1                         | .....                    | .....                     | .....                    | .....                     |
| Glocester.....             | 1                    | 1                                   | .....   | 1       | .....                     | .....                    | 1                         | .....                    | .....                     |
| Johnston.....              | 1                    | 1                                   | .....   | 1       | .....                     | .....                    | 1                         | .....                    | .....                     |
| Lincoln.....               | 1                    | 1                                   | .....   | 1       | .....                     | .....                    | 1                         | .....                    | .....                     |
| PAWTECKET.....             | 23                   | 25                                  | 9       | 16      | 9                         | .....                    | 16                        | .....                    | .....                     |
| Scituate.....              | 3                    | 3                                   | 1       | 2       | 1                         | .....                    | 2                         | .....                    | .....                     |
| Smithfield.....            | 1                    | 1                                   | .....   | 1       | .....                     | .....                    | 1                         | .....                    | .....                     |
| WOONSOCKET.....            | 8                    | 9                                   | 4       | 5       | 4                         | .....                    | 4                         | 1                        | .....                     |
| Charlestown.....           | 1                    | 1                                   | .....   | 1       | .....                     | .....                    | 1                         | .....                    | .....                     |
| Hopkinton.....             | 2                    | 2                                   | .....   | 2       | .....                     | .....                    | 2                         | .....                    | .....                     |
| Narragansett District..... | 1                    | 1                                   | 1       | .....   | 1                         | .....                    | .....                     | .....                    | .....                     |
| North Kingstown.....       | 2                    | 2                                   | .....   | 2       | .....                     | .....                    | 2                         | .....                    | .....                     |
| South Kingstown.....       | 4                    | 4                                   | 2       | 2       | 2                         | .....                    | 2                         | .....                    | .....                     |
| Westerly.....              | 3                    | 3                                   | 2       | 1       | 2                         | .....                    | 1                         | .....                    | .....                     |
| Total.....                 | 221                  | 243                                 | 107     | 136     | 102                       | 5                        | 126                       | 9                        | 1                         |

There were 221 marriages, in 1900, in which one or both of the parties had been divorced.

The proportion of the *number of marriages* of which one or both of the parties had been divorced, to the whole number of marriages, was about one in every 18, or 5.6 per cent.

But the proportion of divorced *persons* married during 1900, to the whole number of persons married in the same year, was about one in every 32, or 3.1 per cent., or 31 in every 1,000.

The number of divorced persons married, in 1900, was thirty-one more than in the previous year.

These 221 marriages of divorced persons were performed by clergymen of the different denominations, or by civil authority, as follows :

|                                |    |                          |   |
|--------------------------------|----|--------------------------|---|
| Baptist.....                   | 76 | Advent.....              | 2 |
| Congregational.....            | 42 | Presbyterian.....        | 2 |
| Methodist.....                 | 29 | Advent Christian.....    | 2 |
| Free Baptist.....              | 16 | Primitive Methodsit..... | 2 |
| Universalist.....              | 13 | Independent.....         | 2 |
| Christian.....                 | 7  | Unitarian.....           | 1 |
| Protestant Episcopal.....      | 6  | Hebrew.....              | 1 |
| Justices of Supreme Court..... | 7  | United Presbyterian..... | 1 |
| Roman Catholic.....            | 6  | Latter Day Saints.....   | 1 |
| Lutheran.....                  | 4  | Second Advent.....       | 1 |

*Marriage and Education.*—Of the number of persons married, in 1900, 545 signed their marriage certificates with a mark. The following will show the number of males and females who did so, and their nativity :

|              | Whole No. | Native. | Foreign. |
|--------------|-----------|---------|----------|
| Males.....   | 233.....  | 25..... | 208      |
| Females..... | 312.....  | 35..... | 277      |
| Total.....   | 545.....  | 60..... | 485      |

## DIVORCES, 1900.

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According to the returns made to the Secretary of the State Board of Health (State Registrar) by the clerks of the Supreme Courts of the different counties of Rhode Island, the number of applications for divorce, during 1900, was seven hundred and fourteen (714).

The number of divorces granted, during 1900, was four hundred and sixty-six.

There were 66 more applications, during 1900, than during the preceding year, and the number of divorces granted was 54 more.

Divorces are decreed for the following seven statute causes, viz.:

1. Adultery.
2. Extreme cruelty.
3. Willful desertion for five years of either of the parties, or for a shorter period, in the discretion of the court.
4. Continued drunkenness.
5. Neglect or refusal to provide necessities (having ability) for the subsistence of a wife.
6. Gross misbehavior and wickedness other than aforesaid.
7. Impotency.

Divorces are also decreed, or marriages set aside, in the discretion of the court, for ascertained affinity, consanguinity, idiocy, insanity, penitentiary crimes, and bigamous or otherwise illegal marriage.

The following Table shows the number of applications for divorce, and the number granted, in 1900, in each county of the State; also the causes alleged for the applications :

TABLE XLIV.

| COUNTIES.         | Number of Applications. |     | CAUSES ALLEGED. |                  |                    |                        |                                      |                          |                |            |                                           | Total Causes Alleged. |
|-------------------|-------------------------|-----|-----------------|------------------|--------------------|------------------------|--------------------------------------|--------------------------|----------------|------------|-------------------------------------------|-----------------------|
|                   | Number Granted.         |     | Adultery.       | Extreme Cruelty. | Willful Desertion. | Continued Drunkenness. | Neglect to Provide Necessaries, etc. | Other Gross Misbehavior. | Void Marriage. | Impotency. | Lived separate and apart for over 10 yrs. |                       |
| Bristol.....      | 13                      | 8   | 4               | 5                | 10                 | 2                      | 5                                    | 4                        | .....          | .....      | .....                                     | 30                    |
| Kent.....         | 25                      | 19  | 5               | 13               | 8                  | 9                      | 18                                   | 5                        | .....          | .....      | .....                                     | 58                    |
| Newport.....      | 24                      | 15  | 7               | 4                | 11                 | 2                      | 13                                   | 9                        | .....          | .....      | .....                                     | 46                    |
| Providence.....   | 622                     | 400 | 88              | 216              | 247                | 128                    | 386                                  | 94                       | 1              | 1          | .....                                     | 1,161                 |
| Washington.....   | 30                      | 24  | 4               | 13               | 21                 | 6                      | 18                                   | 13                       | .....          | .....      | .....                                     | 75                    |
| Whole State ..... | 714                     | 466 | 108             | 251              | 297                | 147                    | 440                                  | 125                      | 1              | 1          | .....                                     | 1,370                 |

There were, during the year 1900, seven hundred and fourteen (714) applications for divorce, and the whole number of causes alleged was thirteen hundred and seventy (1,370). There was, therefore, an average of nearly two causes alleged in each application.

The causes alleged why divorces should be granted in the applications, during 1900, were 111 more in number than in 1899.



In order to show the actual number of applications, and the number of divorces granted in each of the last twenty-eight years, the following summary is presented :

|                      | Applications<br>for divorce. | Divorces<br>granted. | Applications<br>refused or continued<br>or withdrawn. |
|----------------------|------------------------------|----------------------|-------------------------------------------------------|
| 1873.....            | 261.....                     | 173.....             | 88                                                    |
| 1874.....            | 276.....                     | 242.....             | 34                                                    |
| 1875.....            | 227.....                     | 158.....             | 69                                                    |
| 1876.....            | 254.....                     | 196.....             | 58                                                    |
| 1877.....            | 257.....                     | 178.....             | 79                                                    |
| 1878.....            | 258.....                     | 196.....             | 62                                                    |
| 1879.....            | 255.....                     | 246.....             | 9                                                     |
| 1880.....            | 347.....                     | 273.....             | 74                                                    |
| 1881.....            | 350.....                     | 268.....             | 82                                                    |
| 1882.....            | 339.....                     | 271.....             | 68                                                    |
| 1883.....            | 321.....                     | 257.....             | 64                                                    |
| 1884.....            | 320.....                     | 266.....             | 54                                                    |
| 1885.....            | 293.....                     | 227.....             | 66                                                    |
| 1886.....            | 336.....                     | 257.....             | 79                                                    |
| 1887.....            | 322.....                     | 248.....             | 74                                                    |
| 1888.....            | 304.....                     | 224.....             | 80                                                    |
| 1889.....            | 366.....                     | 274.....             | 92                                                    |
| 1890.....            | 327.....                     | 244.....             | 83                                                    |
| 1891.....            | 362.....                     | 275.....             | 87                                                    |
| 1892.....            | 412.....                     | 296.....             | 116                                                   |
| 1893.....            | 529.....                     | 301.....             | 228                                                   |
| 1894.....            | 506.....                     | 280.....             | 226                                                   |
| 1895.....            | 516.....                     | 373.....             | 143                                                   |
| 1896.....            | 526.....                     | 363.....             | 163                                                   |
| 1897.....            | 544.....                     | 372.....             | 172                                                   |
| 1898.....            | 615.....                     | 400.....             | 215                                                   |
| 1899.....            | 648.....                     | 412.....             | 236                                                   |
| 1900.....            | 714.....                     | 466.....             | 248                                                   |
| 28 years, total..... | 10,785                       | 7,736                | 3,049                                                 |

The average annual proportion of decrees of divorce granted during the last twenty-eight years, to the applications therefor, was 71.7 per cent.

During the last ten years the proportions were as follows :

|               |           |           |           |           |           |           |           |           |           |       |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Years.....    | 1891,     | 1892,     | 1893,     | 1894,     | 1895,     | 1896,     | 1897,     | 1898,     | 1899,     | 1900. |
| Per cent..... | 76.0..... | 71.8..... | 56.9..... | 55.3..... | 72.3..... | 69.0..... | 68.4..... | 65.0..... | 63.6..... | 65.3  |

The proportion of *divorces granted*, in 1900, to the whole number of marriages, during the same year, was *one divorce* to every eight and five-tenths marriages.

The proportion of *applications for divorce* to whole number of marriages, during the year, was *one application* to every five and five-tenths marriages.



The following Table shows the number of divorces granted in each county, and the whole State, in each of the last thirty-two years, and the proportion of marriages to each divorce granted in each year:

TABLE XLV.

| YEARS.    | Bristol County.   |                           | Kent County.      |                           | Newport County.   |                           | Providence County. |                           | Washington County. |                           | Whole State.      |                           |
|-----------|-------------------|---------------------------|-------------------|---------------------------|-------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|-------------------|---------------------------|
|           | Divorces Granted. | Marriages to one Divorce. | Divorces Granted. | Marriages to one Divorce. | Divorces Granted. | Marriages to one Divorce. | Divorces Granted.  | Marriages to one Divorce. | Divorces Granted.  | Marriages to one Divorce. | Divorces Granted. | Marriages to one Divorce. |
| 1869..... | 10                | 10.6                      | 15                | 12.5                      | 6                 | 27.7                      | 120                | 13.8                      | 11                 | 15.5                      | 162               | 14.1                      |
| 1870..... | 3                 | 22.7                      | 18                | 11.8                      | 6                 | 26.3                      | 152                | 11.3                      | 21                 | 9.3                       | 200               | 11.8                      |
| 1871..... | 5                 | 16.8                      | 11                | 17.9                      | 4                 | 49.7                      | 123                | 13.3                      | 18                 | 11.4                      | 161               | 14.5                      |
| 1872..... | 8                 | 10.2                      | 13                | 15.7                      | 8                 | 22.9                      | 149                | 12.6                      | 22                 | 8.9                       | 200               | 12.7                      |
| 1873..... | 6                 | 16.2                      | 22                | 9.8                       | 8                 | 21.9                      | 131                | 14.8                      | 6                  | 33.7                      | 173               | 15.2                      |
| 1874..... | 10                | 8.9                       | 20                | 8.0                       | 6                 | 29.0                      | 190                | 10.0                      | 16                 | 11.6                      | 242               | 10.5                      |
| 1875..... | 2                 | 50.0                      | 18                | 8.8                       | 7                 | 23.4                      | 120                | 14.9                      | 11                 | 20.5                      | 158               | 15.7                      |
| 1876..... | 6                 | 14.5                      | 15                | 12.8                      | 7                 | 20.5                      | 148                | 11.1                      | 20                 | 8.8                       | 190               | 11.5                      |
| 1877..... | 7                 | 12.0                      | 9                 | 16.3                      | 7                 | 26.0                      | 134                | 12.4                      | 21                 | 9.9                       | 178               | 12.8                      |
| 1878..... | 4                 | 26.0                      | 11                | 13.3                      | 13                | 12.8                      | 156                | 10.9                      | 12                 | 17.3                      | 196               | 11.9                      |
| 1879..... | 5                 | 18.8                      | 19                | 9.0                       | 7                 | 24.1                      | 195                | 9.1                       | 20                 | 9.7                       | 246               | 9.7                       |
| 1880..... | 8                 | 12.1                      | 23                | 9.4                       | 11                | 17.6                      | 208                | 9.7                       | 23                 | 17.0                      | 273               | 10.1                      |
| 1881..... | 6                 | 20.1                      | 26                | 7.3                       | 10                | 16.9                      | 207                | 10.0                      | 19                 | 11.0                      | 268               | 10.4                      |
| 1882..... | 6                 | 15.0                      | 18                | 10.3                      | 15                | 13.0                      | 221                | 8.9                       | 11                 | 16.2                      | 271               | 9.7                       |
| 1883..... | 6                 | 15.8                      | 15                | 11.5                      | 9                 | 21.2                      | 214                | 9.2                       | 13                 | 13.3                      | 257               | 10.2                      |
| 1884..... | 4                 | 16.7                      | 20                | 8.0                       | 12                | 15.7                      | 209                | 9.3                       | 21                 | 8.2                       | 266               | 9.6                       |
| 1885..... | 3                 | 23.0                      | 9                 | 18.6                      | 17                | 11.2                      | 186                | 10.1                      | 12                 | 15.0                      | 227               | 11.0                      |
| 1886..... | 5                 | 16.0                      | 17                | 11.0                      | 15                | 12.3                      | 191                | 10.9                      | 26                 | 7.3                       | 257               | 10.7                      |
| 1887..... | 1                 | 75.0                      | 23                | 8.0                       | 13                | 13.4                      | 187                | 11.8                      | 21                 | 7.9                       | 248               | 11.4                      |
| 1888..... | 5                 | 15.8                      | 14                | 13.5                      | 4                 | 46.0                      | 188                | 12.5                      | 13                 | 16.5                      | 221               | 13.5                      |
| 1889..... | 6                 | 12.5                      | 27                | 8.3                       | 14                | 11.0                      | 211                | 11.2                      | 16                 | 10.8                      | 271               | 11.1                      |
| 1890..... | 4                 | 27.5                      | 19                | 12.1                      | 1                 | 232.0                     | 196                | 12.3                      | 21                 | 8.8                       | 244               | 13.0                      |
| 1891..... | 10                | 8.4                       | 20                | 11.2                      | 17                | 12.6                      | 214                | 11.2                      | 14                 | 14.3                      | 275               | 12.1                      |
| 1892..... | 2                 | 49.5                      | 19                | 12.4                      | 20                | 11.6                      | 236                | 11.6                      | 19                 | 10.4                      | 296               | 11.8                      |
| 1893..... | 3                 | 38.0                      | 10                | 23.8                      | 21                | 9.9                       | 235                | 11.5                      | 22                 | 8.0                       | 301               | 11.8                      |
| 1894..... | 7                 | 16.0                      | 22                | 9.0                       | 18                | 12.3                      | 207                | 12.4                      | 26                 | 6.8                       | 280               | 11.7                      |
| 1895..... | 8                 | 10.9                      | 17                | 9.0                       | 11                | 21.3                      | 318                | 8.8                       | 19                 | 11.2                      | 373               | 9.4                       |
| 1896..... | 7                 | 12.4                      | 21                | 7.5                       | 18                | 11.3                      | 301                | 8.8                       | 13                 | 16.1                      | 363               | 9.2                       |
| 1897..... | 9                 | 9.3                       | 20                | 8.5                       | 16                | 12.9                      | 306                | 8.1                       | 21                 | 9.7                       | 372               | 8.4                       |
| 1898..... | 7                 | 12.1                      | 22                | 9.3                       | 19                | 9.9                       | 333                | 7.8                       | 19                 | 9.8                       | 400               | 8.2                       |
| 1899..... | 6                 | 13.5                      | 20                | 11.9                      | 18                | 12.0                      | 355                | 7.7                       | 13                 | 13.0                      | 412               | 8.3                       |
| 1900..... | 8                 | 10.6                      | 19                | 12.4                      | 15                | 17.1                      | 400                | 7.9                       | 24                 | 8.8                       | 466               | 8.5                       |

The ratio of divorces granted in the entire State, during 1900, to the whole number of marriages during the same year, was one divorce to every eight and five-tenths marriages, as previously stated.

During the ten years 1869 to 1878, inclusive, the ratio of divorce to number of marriages was one divorce to every thirteen; during the ten years 1879 to 1888, inclusive, the ratio was one divorce to every ten and six-tenths marriages.

The average of the last ten years was one divorce to about every nine and nine-tenths marriages.

During the thirty-two years 1869-1900 the average proportions of divorce to marriage, in the several counties and the State, have been as follows:

|                        |                                      |
|------------------------|--------------------------------------|
| Bristol County.....    | One divorce to every 19.9 marriages. |
| Kent County.....       | One divorce to every 11.5 marriages. |
| Newport County.....    | One divorce to every 25.9 marriages. |
| Providence County..... | One divorce to every 10.8 marriages. |
| Washington County..... | One divorce to every 12.4 marriages. |
| Whole State.....       | One divorce to every 11.3 marriages. |

*Table showing the Number of Marriages to every Decree of Divorce, in five of the New England States, during the twenty-four years from 1877 to 1900, inclusive.*

TABLE XLVI.

| STATES.            | 1877  | 1878  | 1879  | 1880  | 1881  | 1882  | 1883  | 1884  | 1885  | 1886  | 1887  | 1888  | 1889  | 1890  | 1891  | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | 1900  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|
| Rhode Island.....  | 12.8  | 11.9  | 9.7   | 10.1  | 10.4  | 9.7   | 10.2  | 9.6   | 11.0  | 10.7  | 11.4  | 13.5  | 11.1  | 13.0  | 12.1  | 11.8 | 11.8 | 11.7 | 9.4  | 9.2  | 8.4  | 8.2  | 8.3  | 8.5   |
| Maine.....         | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 10.4 | 9.2  | 8.3  | 8.4  | 8.3  | 7.4  | 6.7  | 6.7  | ..... |
| New Hampshire..... | ..... | ..... | ..... | 7.7   | 9.2   | 10.9  | 12.8  | 10.4  | 10.9  | 8.3   | 10.7  | 8.7   | 9.8   | 9.5   | 9.5   | 11.7 | 10.3 | 12.6 | 9.9  | 9.9  | 8.8  | 8.5  | 8.6  | ..... |
| Vermont.....       | 15.0  | 14.0  | 21.0  | 20.0  | 16.0  | 17.8  | 16.4  | 13.5  | 28.8  | 20.0  | 13.5  | 16.9  | 19.6  | 18.3  | 17.1  | 17.4 | 15.9 | 12.3 | 9.7  | 11.2 | 11.9 | 13.0 | 12.3 | ..... |
| Massachusetts..... | 23.1  | 21.4  | 23.4  | 26.8  | 40.9  | 34.3  | 27.8  | 28.2  | 26.4  | 30.0  | 24.5  | 30.6  | 26.9  | 31.8  | 27.1  | 28.5 | 21.8 | 18.6 | 24.2 | 14.7 | 20.5 | 18.7 | 20.2 | 19.3  |
| Connecticut.....   | 10.1  | 10.7  | 13.4  | 13.9  | 11.6  | 12.8  | 12.1  | 14.9  | 13.3  | 14.2  | 14.9  | 13.8  | 10.7  | 13.2  | 13.7  | 13.2 | 16.6 | 15.9 | 15.9 | 14.5 | 16.0 | 15.3 | 15.9 | 15.5  |

## DEATHS, 1900.

The number of deaths registered in Rhode Island during 1900, according to the returns made to the State Registrar, was eight thousand, eight hundred and twenty-three (8,823).

This number is larger by 1,918 than that of the year 1898, and 1,365 larger than that of 1899.

The death rate (20.6 in every 1,000 living persons) was three higher than that of the previous year.

The following summary will show the death rates per 1,000 for each of the last five census years, in comparison with the last five years :

| 1880.     | 1885.     | 1890.     | 1895.     | 1900.     | 1896.     | 1897.     | 1898.     | 1899.     | 1900. |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| 17.5..... | 17.7..... | 20.7..... | 19.6..... | 20.6..... | 19.1..... | 17.6..... | 16.7..... | 17.6..... | 20.6  |

Since 1876 the returns have been more complete than previously, and during the last ten years few deaths have occurred in the State which were not reported.

On the following page will be found the death rates, by counties, for forty years.

TABLE XLVII.

*Death rates per 1,000 living, by counties, for forty years, from 1861 to 1900, inclusive ; also the average rate of each period of five years each, from 1861 to 1900, inclusive, for the whole State.*

| YEARS.                     | Bristol. | Kent. | Newport. | Providence. | Washington. | State. | STATE.<br>ANNUAL AVERAGE OF<br>FIVE-YEAR PERIODS,<br>1861-1900. |
|----------------------------|----------|-------|----------|-------------|-------------|--------|-----------------------------------------------------------------|
| Five years, 1861-1865..... | 17.7     | 15.9  | 18.9     | 17.7        | 12.4        | 17.1   | ....17.1 per 1,000 living.                                      |
| 1866.....                  | 19.2     | 14.2  | 17.3     | 16.6        | 11.4        | 16.1   | ....15.6 per 1,000 living.                                      |
| 1867.....                  | 17.0     | 15.1  | 15.0     | 16.4        | 10.9        | 15.6   |                                                                 |
| 1868.....                  | 15.7     | 13.7  | 14.7     | 17.0        | 10.0        | 15.7   |                                                                 |
| 1869.....                  | 17.9     | 16.7  | 13.2     | 16.0        | 12.8        | 15.6   |                                                                 |
| 1870.....                  | 15.5     | 13.5  | 14.1     | 15.5        | 12.0        | 14.9   |                                                                 |
| 1871.....                  | 16.3     | 17.5  | 12.2     | 15.9        | 12.3        | 15.4   | ....17.5 per 1,000 living.                                      |
| 1872.....                  | 21.1     | 16.1  | 14.5     | 21.2        | 14.7        | 19.1   |                                                                 |
| 1873.....                  | 18.4     | 13.8  | 19.0     | 22.0        | 15.1        | 20.2   |                                                                 |
| 1874.....                  | 14.7     | 13.2  | 10.8     | 17.7        | 13.7        | 16.3   |                                                                 |
| 1875.....                  | 14.9     | 14.9  | 13.5     | 17.5        | 15.5        | 16.7   |                                                                 |
| 1876.....                  | 14.7     | 11.7  | 13.5     | 16.8        | 15.9        | 15.9   | ....16.8 per 1,000 living.                                      |
| 1877.....                  | 18.2     | 13.1  | 12.4     | 18.7        | 12.8        | 17.2   |                                                                 |
| 1878.....                  | 17.5     | 14.2  | 13.7     | 18.3        | 13.0        | 17.2   |                                                                 |
| 1879.....                  | 13.2     | 15.1  | 14.8     | 17.2        | 11.1        | 16.2   |                                                                 |
| 1880.....                  | 19.2     | 14.9  | 14.5     | 18.5        | 12.7        | 17.5   |                                                                 |
| 1881.....                  | 17.9     | 16.5  | 15.7     | 19.3        | 11.9        | 18.1   | ....18.0 per 1,000 living.                                      |
| 1882.....                  | 16.5     | 15.3  | 17.2     | 19.7        | 11.0        | 18.4   |                                                                 |
| 1883.....                  | 17.7     | 14.6  | 17.7     | 20.8        | 9.8         | 19.1   |                                                                 |
| 1884.....                  | 17.7     | 17.1  | 14.5     | 17.8        | 12.6        | 16.9   |                                                                 |
| 1885.....                  | 16.3     | 16.4  | 14.5     | 18.5        | 14.0        | 17.7   |                                                                 |
| 1886.....                  | 19.2     | 17.5  | 15.0     | 19.2        | 15.0        | 18.8   | ....19.8 per 1,000 living.                                      |
| 1887.....                  | 18.2     | 15.5  | 15.1     | 21.1        | 15.5        | 19.8   |                                                                 |
| 1888.....                  | 21.3     | 18.4  | 18.0     | 21.0        | 16.0        | 20.4   |                                                                 |
| 1889.....                  | 17.6     | 20.1  | 14.7     | 19.2        | 14.6        | 19.0   |                                                                 |
| 1890.....                  | 22.1     | 17.6  | 16.5     | 22.1        | 13.5        | 20.7   |                                                                 |
| 1891.....                  | 20.5     | 18.0  | 20.6     | 18.6        | 12.6        | 19.6   | ....19.6 per 1,000 living.                                      |
| 1892.....                  | 20.0     | 20.7  | 20.1     | 20.2        | 15.2        | 20.1   |                                                                 |
| 1893.....                  | 19.9     | 19.4  | 17.9     | 19.9        | 12.6        | 19.6   |                                                                 |
| 1894.....                  | 16.5     | 19.8  | 16.9     | 19.1        | 16.4        | 19.1   |                                                                 |
| 1895.....                  | 20.9     | 17.4  | 15.9     | 20.1        | 15.0        | 19.6   |                                                                 |
| 1896.....                  | 17.9     | 18.8  | 17.0     | 19.2        | 15.3        | 19.1   | ....18.3 per 1,000 living.                                      |
| 1897.....                  | 18.6     | 16.7  | 16.2     | 17.6        | 14.7        | 17.6   |                                                                 |
| 1898.....                  | 15.0     | 15.6  | 15.5     | 16.7        | 14.5        | 16.7   |                                                                 |
| 1899.....                  | 17.6     | 16.8  | 17.6     | 17.6        | 14.1        | 17.6   |                                                                 |
| 1900.....                  | 22.6     | 22.6  | 18.7     | 19.9        | 18.2        | 20.6   |                                                                 |

Annual average, forty years. 1861-1900.....17.8 per 1,000 living.

## SEX OF DECEDENTS.

Of the 8,823 persons whose deaths were returned during the year 1900, 4,473 were males, and 4,350 were females; the ratio standing at 102.8 males to each 100 females, or about 507 males and 493 females in every 1,000 decedents.

The following Table will show the number and proportion of males and females among the *decedents* in Rhode Island during the ten years 1853 to 1862, inclusive; also in each of the thirty-eight years from 1863 to 1900, inclusive, and for the entire period of forty-eight years:

TABLE XLVIII.—DEATHS.

|                          | Males.       | Females.     | Males to<br>every 100 females. |
|--------------------------|--------------|--------------|--------------------------------|
| 10 years, 1853-1862..... | 10,930.....  | 11,269.....  | 96.9                           |
| 1863.....                | 1,621.....   | 1,586.....   | 102.2                          |
| 1864.....                | 1,633.....   | 1,727.....   | 92.4                           |
| 1865.....                | 1,686.....   | 1,719.....   | 98.1                           |
| 1866.....                | 1,497.....   | 1,473.....   | 101.5                          |
| 1867.....                | 1,442.....   | 1,447.....   | 99.7                           |
| 1868.....                | 1,413.....   | 1,499.....   | 94.3                           |
| 1869.....                | 1,696.....   | 1,686.....   | 100.6                          |
| 1870.....                | 1,588.....   | 1,650.....   | 96.2                           |
| 1871.....                | 1,621.....   | 1,723.....   | 94.1                           |
| 1872.....                | 2,118.....   | 2,129.....   | 99.4                           |
| 1873.....                | 2,166.....   | 2,237.....   | 95.5                           |
| 1874.....                | 2,111.....   | 2,118.....   | 99.7                           |
| 1875.....                | 2,108.....   | 2,209.....   | 95.4                           |
| 1876.....                | 1,969.....   | 2,147.....   | 91.7                           |
| 1877.....                | 2,132.....   | 2,318.....   | 92.0                           |
| 1878.....                | 2,161.....   | 2,280.....   | 94.8                           |
| 1879.....                | 2,183.....   | 2,289.....   | 95.4                           |
| 1880.....                | 2,366.....   | 2,463.....   | 96.0                           |
| 1881.....                | 2,467.....   | 2,549.....   | 96.8                           |
| 1882.....                | 2,487.....   | 2,587.....   | 96.5                           |
| 1883.....                | 2,627.....   | 2,655.....   | 99.0                           |
| 1884.....                | 2,486.....   | 2,655.....   | 93.6                           |
| 1885.....                | 2,607.....   | 2,782.....   | 93.7                           |
| 1886.....                | 2,833.....   | 3,016.....   | 93.9                           |
| 1887.....                | 3,177.....   | 3,163.....   | 100.4                          |
| 1888.....                | 3,199.....   | 3,395.....   | 95.4                           |
| 1889.....                | 3,093.....   | 3,166.....   | 97.7                           |
| 1890.....                | 3,501.....   | 3,433.....   | 102.0                          |
| 1891.....                | 3,341.....   | 3,279.....   | 101.9                          |
| 1892.....                | 3,725.....   | 3,671.....   | 101.5                          |
| 1893.....                | 3,789.....   | 3,651.....   | 103.8                          |
| 1894.....                | 3,559.....   | 3,601.....   | 98.8                           |
| 1895.....                | 3,799.....   | 3,736.....   | 101.6                          |
| 1896.....                | 3,874.....   | 3,630.....   | 106.7                          |
| 1897.....                | 3,587.....   | 3,523.....   | 106.7                          |
| 1898.....                | 3,554.....   | 3,351.....   | 106.1                          |
| 1899.....                | 3,725.....   | 3,733.....   | 99.8                           |
| 1900.....                | 4,473.....   | 4,350.....   | 102.8                          |
| 48 years.....            | 110,344..... | 111,895..... | 98.0                           |



The following Table of *births*, during the same period of time as the preceding, will show by comparison the different proportions of the sexes in the two classes of events:

TABLE XLIX.—BIRTHS.

|                          | Males.       | Females.     | Males to<br>every 100 females. |
|--------------------------|--------------|--------------|--------------------------------|
| 10 years, 1853-1862..... | 18,377.....  | 17,260.....  | 106.4                          |
| 1863.....                | 1,892.....   | 1,788.....   | 105.8                          |
| 1864.....                | 1,949.....   | 1,942.....   | 100.3                          |
| 1865.....                | 2,006.....   | 1,857.....   | 112.9                          |
| 1866.....                | 2,546.....   | 2,256.....   | 108.0                          |
| 1867.....                | 2,655.....   | 2,464.....   | 107.0                          |
| 1868.....                | 2,745.....   | 2,627.....   | 104.5                          |
| 1869.....                | 2,685.....   | 2,560.....   | 104.9                          |
| 1870.....                | 2,679.....   | 2,536.....   | 104.9                          |
| 1871.....                | 2,878.....   | 2,800.....   | 105.8                          |
| 1872.....                | 3,085.....   | 3,058.....   | 100.9                          |
| 1873.....                | 3,135.....   | 2,887.....   | 108.6                          |
| 1874.....                | 3,311.....   | 3,155.....   | 104.9                          |
| 1875.....                | 3,362.....   | 3,146.....   | 106.9                          |
| 1876.....                | 3,291.....   | 3,088.....   | 108.3                          |
| 1877.....                | 3,163.....   | 3,072.....   | 103.0                          |
| 1878.....                | 3,402.....   | 3,312.....   | 102.7                          |
| 1879.....                | 3,259.....   | 3,091.....   | 105.4                          |
| 1880.....                | 3,241.....   | 3,054.....   | 106.1                          |
| 1881.....                | 3,498.....   | 3,263.....   | 107.2                          |
| 1882.....                | 3,509.....   | 3,316.....   | 105.8                          |
| 1883.....                | 3,548.....   | 3,498.....   | 101.4                          |
| 1884.....                | 3,713.....   | 3,592.....   | 103.4                          |
| 1885.....                | 3,591.....   | 3,437.....   | 104.4                          |
| 1886.....                | 3,897.....   | 3,724.....   | 104.6                          |
| 1887.....                | 3,968.....   | 3,700.....   | 107.4                          |
| 1888.....                | 4,023.....   | 3,817.....   | 105.4                          |
| 1889.....                | 4,193.....   | 4,027.....   | 104.1                          |
| 1890.....                | 4,351.....   | 4,199.....   | 103.2                          |
| 1891.....                | 4,926.....   | 4,500.....   | 109.5                          |
| 1892.....                | 4,765.....   | 4,505.....   | 109.3                          |
| 1893.....                | 5,105.....   | 4,943.....   | 103.3                          |
| 1894.....                | 5,129.....   | 4,856.....   | 105.6                          |
| 1895.....                | 5,136.....   | 4,746.....   | 108.2                          |
| 1896.....                | 5,461.....   | 5,289.....   | 103.3                          |
| 1897.....                | 5,493.....   | 5,302.....   | 103.5                          |
| 1898.....                | 5,443.....   | 5,287.....   | 102.9                          |
| 1899.....                | 5,591.....   | 5,240.....   | 106.7                          |
| 1900.....                | 5,625.....   | 5,459.....   | 103.0                          |
| 45 years.....            | 160,716..... | 152,703..... | 105.5                          |

## SEASON AND MORTALITY.

The whole number of decedents, and the sex of the same, in each month of the year 1900, and in each division of the State, may be found in Table V, on the tenth and eleventh pages.

The influence of season upon mortality may be further illustrated by the following Table, which shows the number and percentage of deaths, compared with the whole number of deaths, in each quarter of each of the last five years, and in the aggregate for forty-five years, 1853 to 1897, inclusive :

TABLE L.

| SEASON.              | 1900.   |           | 1889.   |           | 1898.   |           | 1897.   |           | 1896.   |           | 45 years,<br>1853-1897. |           |
|----------------------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|-------------------------|-----------|
|                      | Number. | Per cent. | Number. | Per cent. | Number. | Per cent. | Number. | Per cent. | Number. | Per cent. | Number.                 | Per cent. |
| January-March .      | 2,400   | 27.20     | 2,043   | 27.39     | 1,627   | 23.56     | 1,937   | 27.24     | 1,833   | 24.43     | 47,004                  | 24.38     |
| April-June . . . . . | 2,220   | 25.16     | 1,699   | 22.78     | 1,643   | 23.79     | 1,540   | 21.66     | 1,856   | 24.73     | 42,029                  | 21.80     |
| July-September.      | 2,315   | 26.24     | 2,053   | 27.53     | 1,998   | 28.94     | 2,024   | 28.47     | 2,212   | 29.48     | 55,526                  | 28.80     |
| Oct.-December..      | 1,888   | 21.40     | 1,663   | 22.30     | 1,637   | 23.71     | 1,609   | 22.63     | 1,603   | 21.36     | 48,235                  | 25.02     |
| Total . . . . .      | 8,823   | 100.00    | 7,458   | 100.00    | 6,905   | 100.00    | 7,110   | 100.00    | 7,504   | 100.00    | 192,794                 | 100.00    |

Comparing the percentages of 1900 with those of the forty-five years, we find that of the first quarter is 2.82 per cent. larger; the second quarter is 3.36 per cent. larger; the third quarter 2.56 per cent. smaller; and the last quarter 3.62 per cent. smaller than for the average of the forty-five years. The greatest mortality for any one season of any year is usually found in the third quarter; but in 1890 and 1900, owing in large measures to the epidemic of influenza, the first quarter had the largest mortality.

TABLE LI.

*Showing the Months in the Order of Largest Mortality for Eight Years.*

| 1900.                | 1899.            | 1898.            | 1897.            | 1896.            | 1895.            | 1894.            | 1893.             |
|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 1. April..... 988    | January..... 785 | August..... 730  | August..... 735  | July..... 836    | March..... 779   | July..... 833    | July..... 738     |
| 2. March..... 915    | August..... 752  | September... 673 | February.... 721 | August..... 810  | July..... 743    | January.... 799  | August..... 719   |
| 3. August..... 829   | July..... 717    | July..... 595    | September... 647 | March..... 635   | August..... 738  | August..... 628  | April..... 681    |
| 4. July..... 823     | March..... 638   | December... 585  | July..... 642    | April..... 634   | April..... 630   | September.. 595  | March..... 654    |
| 5. February.... 752  | December... 696  | March..... 582   | March..... 619   | May..... 626     | October..... 629 | April..... 578   | January..... 644  |
| 6. January..... 733  | April..... 634   | April..... 576   | January..... 597 | January..... 617 | September... 610 | May..... 569     | May..... 635      |
| 7. December... 678   | February.... 620 | May..... 598     | October..... 572 | June..... 596    | December... 610  | March..... 561   | December.... 621  |
| 8. September... 663  | September... 584 | October..... 543 | December.... 559 | February.... 581 | February.... 606 | February.... 559 | September.... 617 |
| 9. May..... 645      | May..... 547     | January..... 540 | April..... 538   | September... 566 | January..... 577 | June..... 549    | February..... 572 |
| 10. October..... 629 | November... 522  | November... 509  | May..... 520     | December... 561  | November... 570  | October..... 520 | October..... 547  |
| 11. June..... 587    | June..... 518    | February.... 505 | June..... 482    | October..... 556 | May..... 562     | December... 502  | June..... 511     |
| 12. November... 581  | October..... 505 | June..... 499    | November... 478  | November... 486  | June..... 481    | November... 467  | November.... 501  |
| 8,823                | 7,458            | 6,905            | 7,110            | 7,504            | 7,535            | 7,160            | 7,440             |

## NATIVITY OF DECEDENTS.

There may be found in Table I, on pages 2-5, the number of decedents in 1900, by division of the two classes of native and foreign born.

Of the whole number of decedents, 8,823, 6,348 were native born, that is, were born in the United States, and 2,475 were born outside of the United States.

## PARENTAGE OF DECEDENTS.

Of the whole number of decedents, 8,823, reported in 1900, 3,745 were of native, and 5,078 were of foreign and unknown parentage.

By the term "*foreign parentage*" is meant the decedents whose *fathers* were born in some other country and not in the United States. The grandchildren of the foreign born are reckoned as of native parentage, if their fathers were born in the United States.

The following eleven towns reported a larger number of decedents of foreign *parentage* than of native, namely: Warren, Warwick, Burrillville, Central Falls, Cumberland, Johnston, Lincoln, North Smithfield, Pawtucket, Providence, and Woonsocket; also the State Institutions at Cranston.

These numbers varied from a moderate excess to three or four times as many of foreign as of native *parentage*.

The following Table gives the number and proportion in every one thousand deaths of decedents of native and of foreign *parentage* in each of the last five years; and in the aggregate for forty years, or from 1858 to 1897, inclusive:

TABLE LII.

| PARENTAGE.    | 1900.   |            | 1899.   |            | 1898.   |            | 1897.   |            | 1896.   |            | 40 years.<br>1858-1897. |            |
|---------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|------------|-------------------------|------------|
|               | Number. | Per 1,000. | Number. | Per 1,000. | Number. | Per 1,000. | Number. | Per 1,000. | Number. | Per 1,000. | Number.                 | Per 1,000. |
| Native. ....  | 3,745   | 424.5      | 3,097   | 415.0      | 2,938   | 425.5      | 3,102   | 436.3      | 3,088   | 411.5      | 103,927                 | 503.5      |
| Foreign ..... | 5,078   | 575.5      | 4,361   | 585.0      | 3,967   | 574.5      | 4,008   | 563.7      | 4,416   | 588.5      | 102,579                 | 496.7      |
| Total .....   | 8,823   | 1000.0     | 7,458   | 1000.0     | 6,905   | 1000.0     | 7,110   | 1000.0     | 7,504   | 1000.0     | 206,506                 | 1000.0     |

## AGE OF DECEDENTS.

In Table I, on pages 2-5, may be found the aggregate and average age of all the decedents whose deaths occurred in 1900, and with the age of each sex in each town and county in the State.

By that Table it will be seen that the average age of all the male decedents in the State, in 1900, was 31.81 years, and that the average age of all the female decedents, in the same year, was 35.58 years; the average age of all decedents, of both sexes, was 33.67 years.

The average age of the total decedents in the State, in 1900, was two years less than the average for 1899.

The average age of the male decedents, in 1900, was two and twenty-three one-hundredths of a year less, and the average age of the female decedents was one and seventy-two one-hundredths of a year less, than in the previous year.

The following Table will present, separately, the average age of the male and female decedents, and the average age of all decedents in each year for forty years; also the average age in seven periods of five years each, from 1861 to 1900, inclusive:

TABLE LIII.

| YEARS. | Average Age<br>of Males. | Average Age<br>of Females. | Average Age<br>of All. | Average Age,<br>5-year periods,<br>1861-1900. |
|--------|--------------------------|----------------------------|------------------------|-----------------------------------------------|
| 1861   | 26.95                    | 30.58                      | 28.82                  |                                               |
| 1862   | 29.64                    | 32.65                      | 31.15                  |                                               |
| 1863   | 28.29                    | 30.86                      | 29.56                  | 29.32                                         |
| 1864   | 28.13                    | 30.43                      | 29.40                  |                                               |
| 1865   | 26.38                    | 28.97                      | 27.69                  |                                               |
| 1866   | 31.13                    | 35.07                      | 33.09                  |                                               |
| 1867   | 32.16                    | 35.86                      | 34.01                  |                                               |
| 1868   | 30.47                    | 35.08                      | 32.85                  | 32.42                                         |
| 1869   | 28.62                    | 31.29                      | 30.25                  |                                               |
| 1870   | 31.02                    | 32.75                      | 31.90                  |                                               |
| 1871   | 32.57                    | 34.43                      | 33.52                  |                                               |
| 1872   | 28.41                    | 31.15                      | 29.77                  |                                               |
| 1873   | 26.18                    | 28.62                      | 27.42                  | 30.16                                         |
| 1874   | 28.03                    | 31.66                      | 28.86                  |                                               |
| 1875   | 29.72                    | 32.75                      | 31.27                  |                                               |
| 1876   | 31.47                    | 33.31                      | 32.37                  |                                               |
| 1877   | 29.25                    | 31.56                      | 30.45                  |                                               |
| 1878   | 29.02                    | 31.11                      | 30.09                  | 31.21                                         |
| 1879   | 31.29                    | 33.24                      | 32.29                  |                                               |
| 1880   | 29.62                    | 32.06                      | 30.86                  |                                               |
| 1881   | 30.99                    | 34.07                      | 32.55                  |                                               |
| 1882   | 31.33                    | 35.57                      | 33.50                  |                                               |
| 1883   | 33.64                    | 37.44                      | 35.55                  | 33.99                                         |
| 1884   | 32.29                    | 35.12                      | 33.76                  |                                               |
| 1885   | 33.53                    | 35.60                      | 34.59                  |                                               |
| 1886   | 33.02                    | 34.91                      | 34.01                  |                                               |
| 1887   | 30.97                    | 32.91                      | 31.95                  |                                               |
| 1888   | 33.17                    | 35.74                      | 34.53                  | 33.42                                         |
| 1889   | 32.20                    | 35.74                      | 34.00                  |                                               |
| 1890   | 31.04                    | 34.26                      | 32.62                  |                                               |
| 1891   | 32.70                    | 36.28                      | 34.47                  |                                               |
| 1892   | 32.96                    | 37.75                      | 35.34                  |                                               |
| 1893   | 30.97                    | 33.99                      | 32.46                  | 33.96                                         |
| 1894   | 32.47                    | 34.40                      | 33.44                  |                                               |
| 1895   | 31.70                    | 36.49                      | 34.08                  |                                               |
| 1896   | 30.86                    | 34.47                      | 32.61                  |                                               |
| 1897   | 33.71                    | 37.06                      | 35.37                  |                                               |
| 1898   | 34.34                    | 36.34                      | 35.31                  | 34.53                                         |
| 1899   | 34.04                    | 37.30                      | 35.67                  |                                               |
| 1900   | 31.81                    | 35.58                      | 33.67                  |                                               |



The above Table shows that the average longevity of the decedents in Rhode Island increased over five years during a period of forty years, ending with 1900.

The following Table will present some of the facts of the preceding as occurring in the different divisions of the State, as well as of the State at large. It will show the average age of the decedents in each of the larger divisions of the State, in each of the last four years, and also the average of each of seven periods of five years each, comprising the thirty-five years from 1863 to 1897, inclusive:

TABLE LIV.

| DIVISIONS<br>OF THE STATE. | 1900. | 1899. | 1898. | 1897. | 1893-1897,<br>5 years. | 1888-1892,<br>5 years. | 1883-1887,<br>5 years. | 1878-1882,<br>5 years. | 1873-1877,<br>5 years. | 1868-1872,<br>5 years. | 1863-1867,<br>5 years. |
|----------------------------|-------|-------|-------|-------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Bristol County .....       | 36.06 | 36.89 | 40.09 | 37.81 | 42.78                  | 39.76                  | 38.45                  | 36.68                  | 33.61                  | 35.12                  | 34.78                  |
| Kent County.....           | 29.81 | 33.14 | 32.74 | 31.79 | 31.07                  | 32.22                  | 37.66                  | 37.11                  | 36.20                  | 34.77                  | 35.81                  |
| Newport County.....        | 39.06 | 42.84 | 39.57 | 41.37 | 39.98                  | 40.63                  | 42.41                  | 39.21                  | 40.68                  | 40.04                  | 33.54                  |
| Providence County *.....   | 32.48 | 31.70 | 32.18 | 33.98 | 30.79                  | 31.63                  | 31.83                  | 30.60                  | 28.46                  | 25.36                  | 29.16                  |
| Providence City.....       | 33.01 | 33.79 | 33.18 | 33.44 | 32.03                  | 33.44                  | 32.19                  | 29.50                  | 27.19                  | 25.45                  | 28.50                  |
| Washington County.....     | 44.41 | 50.87 | 50.25 | 46.07 | 46.55                  | 46.77                  | 48.39                  | 41.01                  | 41.14                  | 39.67                  | 30.87                  |
| Whole State.....           | 33.67 | 35.67 | 35.31 | 35.37 | 33.59                  | 34.19                  | 33.97                  | 31.86                  | 30.28                  | 31.66                  | 30.73                  |

By reference to Table LIV it will be seen that the average age of all decedents during the last four years is nearly four years greater than the first period of five years, 1863-1867.

#### PERCENTAGE OF DECEDENTS BY DIFFERENT AGES.

In Table VI, on pages 12 to 19, inclusive, will be found the number of deaths in 1900, in each town and each county, of each sex, and in each period of life, with the percentage of the whole number of deaths in each division to the population of the same by the census of 1900.

The following Table shows the percentage of decedents in each division of ages, to whole number of deaths, in each of the last eight years, and in the aggregate for three periods: one of twenty years and seven months, from June 1st, 1852, to December 31, 1872, inclusive; one of ten years, from 1873 to 1882, inclusive; and one of ten years, from 1883 to 1892, inclusive:

\* Exclusive of Providence city.

TABLE LV.

| PERIODS OF LIFE.         | 1900. | 1899. | 1898. | 1897. | 1896. | 1895. | 1894. | 1893. | 10 years,<br>1883 to 1892. | 10 years,<br>1873 to 1882. | 20 years,<br>7 months,<br>1852 to 1872. |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|----------------------------|-----------------------------------------|
| Under one year.....      | 23.4  | 22.7  | 22.9  | 22.5  | 24.4  | 21.7  | 23.1  | 23.2  | 20.4                       | 18.9                       | 17.8                                    |
| 1 and under 2.....       | 5.7   | 5.1   | 4.7   | 4.9   | 4.7   | 5.3   | 4.8   | 5.2   | 5.6                        | 7.6                        | 8.8                                     |
| 2 and under 5.....       | 5.1   | 4.2   | 4.1   | 4.5   | 5.9   | 6.2   | 5.1   | 5.3   | 5.8                        | 8.4                        | 8.7                                     |
| Total.....               | 34.2  | 32.0  | 31.7  | 31.9  | 35.0  | 33.2  | 33.0  | 33.7  | 31.8                       | 34.9                       | 35.3                                    |
| 5 and under 10.....      | 2.8   | 2.1   | 2.4   | 2.5   | 3.1   | 3.6   | 2.7   | 3.9   | 3.5                        | 5.0                        | 4.8                                     |
| 10 and under 20.....     | 3.6   | 3.7   | 3.8   | 4.4   | 4.4   | 4.2   | 5.1   | 4.5   | 5.1                        | 5.8                        | 6.0                                     |
| 20 and under 30.....     | 7.7   | 7.2   | 8.0   | 8.0   | 8.0   | 8.6   | 8.6   | 7.9   | 8.7                        | 9.2                        | 9.6                                     |
| 30 and under 40.....     | 7.2   | 8.4   | 8.1   | 7.7   | 8.0   | 7.5   | 7.4   | 8.0   | 7.9                        | 7.8                        | 8.4                                     |
| 40 and under 50.....     | 7.7   | 7.9   | 8.1   | 7.6   | 7.6   | 8.0   | 8.5   | 8.4   | 7.5                        | 6.9                        | 7.3                                     |
| 50 and under 60.....     | 9.9   | 9.7   | 10.1  | 8.5   | 8.9   | 8.6   | 8.9   | 8.9   | 8.5                        | 7.2                        | 7.0                                     |
| 60 and under 70.....     | 10.5  | 11.1  | 11.1  | 11.5  | 10.0  | 10.3  | 10.2  | 10.0  | 9.7                        | 8.2                        | 7.6                                     |
| 70 and under 80.....     | 10.1  | 11.2  | 10.1  | 10.9  | 9.0   | 9.8   | 9.3   | 8.9   | 9.9                        | 8.8                        | 7.2                                     |
| 80 and under 90.....     | 5.4   | 5.6   | 5.6   | 6.0   | 5.0   | 5.3   | 5.0   | 4.8   | 5.9                        | 5.1                        | 5.1                                     |
| Over 90 and not stated.. | 0.9   | 1.1   | 1.0   | 1.0   | 1.0   | 0.9   | 1.3   | 1.0   | 1.5                        | 1.1                        | 1.1                                     |
| Total.....               | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0                      | 100.0                      | 100.0                                   |

Compared with the average of thirty years, ending with 1882, the average proportion of the mortality of children under one year of age, during the last eight years, was 4.8 per cent., or about 48 in every one thousand deaths more than the average in the longer period.

The proportions in the other periods were not greatly different from previous years, although there was some increase of percentage in the age periods above fifty years.

The following Table will present the varying proportions of deaths to whole number of deaths, in four different periods of life, from 50 years of age to 90 years, grouped in four periods of averages of ten years each, 1853-1892; in 1893, 1894, 1895, 1896, 1897, 1898, 1899, and 1900.

TABLE LVI.

| AGE OF<br>DECEDENTS. | 1st Decade,<br>1853-1862. | 2d Decade,<br>1863-1872. | 3d Decade,<br>1873-1882. | 4th Decade,<br>1883-1892. | 1893.         | 1894.         | 1895.         | 1896.         | 1897.         | 1898.         | 1899.         | 1900.         |
|----------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                      | <i>Pr.ct.</i>             | <i>Pr.ct.</i>            | <i>Pr.ct.</i>            | <i>Pr.ct.</i>             | <i>Pr.ct.</i> | <i>Pr.ct.</i> | <i>Pr.ct.</i> | <i>Pr.ct.</i> | <i>Pr.ct.</i> | <i>Pr.ct.</i> | <i>Pr.ct.</i> | <i>Pr.ct.</i> |
| 50 to 60.....        | 6.7                       | 7.3                      | 7.2                      | 8.5                       | 8.9           | 8.9           | 8.6           | 8.9           | 8.5           | 10.1          | 9.7           | 9.9           |
| 60 to 70.....        | 6.9                       | 8.3                      | 8.2                      | 9.7                       | 10.0          | 10.2          | 10.3          | 10.0          | 11.5          | 11.1          | 11.1          | 10.5          |
| 70 to 80.....        | 7.3                       | 8.4                      | 8.8                      | 9.9                       | 8.9           | 9.3           | 9.8           | 9.0           | 10.9          | 10.1          | 11.2          | 10.1          |
| 80 to 90.....        | 4.6                       | 5.4                      | 5.1                      | 5.9                       | 4.8           | 5.0           | 5.3           | 5.0           | 6.0           | 5.6           | 5.6           | 5.4           |

## COLORED DECEDENTS.

There were 242 deaths of persons of color during 1900.

The towns from which they were returned, and number in each, were as follows :

|                                      |     |
|--------------------------------------|-----|
| Providence City.....                 | 140 |
| East Greenwich.....                  | 4   |
| Warwick.....                         | 1   |
| Little Compton.....                  | 1   |
| Newport City.....                    | 42  |
| New Shoreham.....                    | 2   |
| Central Falls.....                   | 1   |
| Cranston and State Institutions..... | 22  |
| East Providence.....                 | 6   |
| Pawtucket.....                       | 1   |
| Scituate.....                        | 1   |
| Charlestown.....                     | 3   |
| Narragansett District.....           | 3   |
| North Kingstown.....                 | 3   |
| South Kingstown.....                 | 8   |
| Richmond.....                        | 2   |
| Westerly.....                        | 2   |
| Total.....                           | 242 |

| Months.            | Deaths. | Months.           | Deaths. | Months.             | Deaths. | Months.              | Deaths. |
|--------------------|---------|-------------------|---------|---------------------|---------|----------------------|---------|
| January....        | 14      | April.....        | 33      | July.....           | 18      | October ....         | 19      |
| February .....     | 21      | May.....          | 15      | August.....         | 29      | November... ..       | 14      |
| March.....         | 32      | June.....         | 18      | September.....      | 12      | December.....        | 17      |
| —                  | —       | —                 | —       | —                   | —       | —                    | —       |
| First Quarter..... | 67      | Second Quarter .. | 66      | Third Quarter... .. | 59      | Fourth Quarter... .. | 50      |

First six months, 133; second six months, 109. Total, 242.

The following summary will show the proportion, to the whole colored population, of each of the events of birth, marriage, and death of colored persons, during the twenty-three years from 1878 to 1900, inclusive:

|            | One Birth<br>in every | One Person<br>married in every | One Death.<br>in every |
|------------|-----------------------|--------------------------------|------------------------|
| 1878.....  | 36.4.....             | 39.2.....                      | 40.2                   |
| 1879 ..... | 39.6.....             | 51.4.....                      | 37.3                   |
| 1880.....  | 47.1 .....            | 43.3.....                      | 44.0                   |
| 1881.....  | 34.3.....             | 39.2.....                      | 35.4                   |
| 1882.....  | 36.8.....             | 44.5.....                      | 45.4                   |
| 1883.....  | 33.4.....             | 63.3.....                      | 39.7                   |
| 1884.....  | 31.8.....             | 46.0.....                      | 34.5                   |
| 1885.....  | 36.7.....             | 51.7 .....                     | 40.1                   |
| 1886.....  | 34.6.....             | 43.2.....                      | 37.8                   |
| 1887.....  | 35.8 .....            | 38.9.....                      | 37.2                   |
| 1888.....  | 37.6.....             | 55.0.....                      | 38.0                   |
| 1889.....  | 38.7.....             | 52.0.....                      | 40.0                   |
| 1890.....  | 45.3.....             | 57.6.....                      | 41.0                   |
| 1891.....  | 42.8.....             | 41.2.....                      | 36.4                   |
| 1892 ..... | 40.6.....             | 38.5.....                      | 31.3                   |
| 1893.....  | 38.6.....             | 44.2.....                      | 31.3                   |
| 1894.....  | 34.3.....             | 56.6 .....                     | 34.2                   |
| 1895.....  | 35.0.....             | 42.6.....                      | 32.1                   |
| 1896.....  | 35.1.....             | 38.9.....                      | 37.9                   |
| 1897.....  | 38.5.....             | 36.0.....                      | 41.3                   |
| 1898.....  | 37.9.....             | 48.2.....                      | 41.8                   |
| 1899.....  | 39.4.....             | 41.7.....                      | 36.0                   |
| 1900.....  | 39.5 .....            | 37.4.....                      | 37.7                   |

In every one thousand of the colored population there were, in 1900:

| Of Births. | Of Persons Married. | Of Deaths. |
|------------|---------------------|------------|
| 25.3.....  | 26.7.....           | 26.5       |

The following exhibit will show the number of living births, marriages, and deaths among the colored population of Rhode Island, during ten years, from 1861 to 1870, inclusive; 10 years, from 1871 to 1880, inclusive; ten years, from 1881 to 1890, inclusive; and for 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, and 1900, and the aggregate of the same.

|                          |                   |                      |               |
|--------------------------|-------------------|----------------------|---------------|
| 10 years, 1861-1870..... | 1,131 births..... | 557 marriages.....   | 1,153 deaths. |
| 10 years, 1871-1880..... | 1,615 births..... | 705 marriages.....   | 1,573 deaths. |
| 10 years, 1881-1890..... | 1,954 births..... | 752 marriages.....   | 1,860 deaths. |
| 1891.....                | 173 births..      | 95 marriages.....    | 204 deaths.   |
| 1892.....                | 182 births.....   | 98 marriages.....    | 236 deaths.   |
| 1893.....                | 203 births.....   | 90 marriages.....    | 250 deaths.   |
| 1894.....                | 221 births.....   | 67 marriages.....    | 232 deaths.   |
| 1895.....                | 221 births.....   | 93 marriages.....    | 247 deaths.   |
| 1896.....                | 226 births.....   | 102 marriages.....   | 209 deaths.   |
| 1897.....                | 206 births.....   | 110 marriages.....   | 192 deaths.   |
| 1898.....                | 216 births.....   | 85 marriages.....    | 196 deaths.   |
| 1899.....                | 201 births.....   | 95 marriages.....    | 220 deaths.   |
| 1900.....                | 231 births.....   | 122 marriages.....   | 242 deaths.   |
| <hr/>                    |                   |                      |               |
| Total, 40 years.....     | 6,778 births..... | 2,971 marriages..... | 6,804 deaths. |

During the first ten years (1861-1870) there were 22 more deaths than births; during the second ten (1871-1880), 42 more births than deaths; during the last ten years (1881-1890), 94 more births than deaths. During 1891 the number of births was 31 less than the number of deaths. During 1892 the number of births was 54 less than the number of deaths. In 1893 the number of births was 47 less than the number of deaths. In 1894 the number of births was 1 less than the number of deaths. In 1895 the number of births was 26 less than the number of deaths. In 1896 the number of births was 17 more than the number of deaths. In 1897 the number of births was 14 more than the number of deaths. In 1898 the number of births was 20 more than the number of deaths. In 1899 the number of births was 19 less than the number of deaths, and in 1900 the number of births 11 less than the number of deaths.

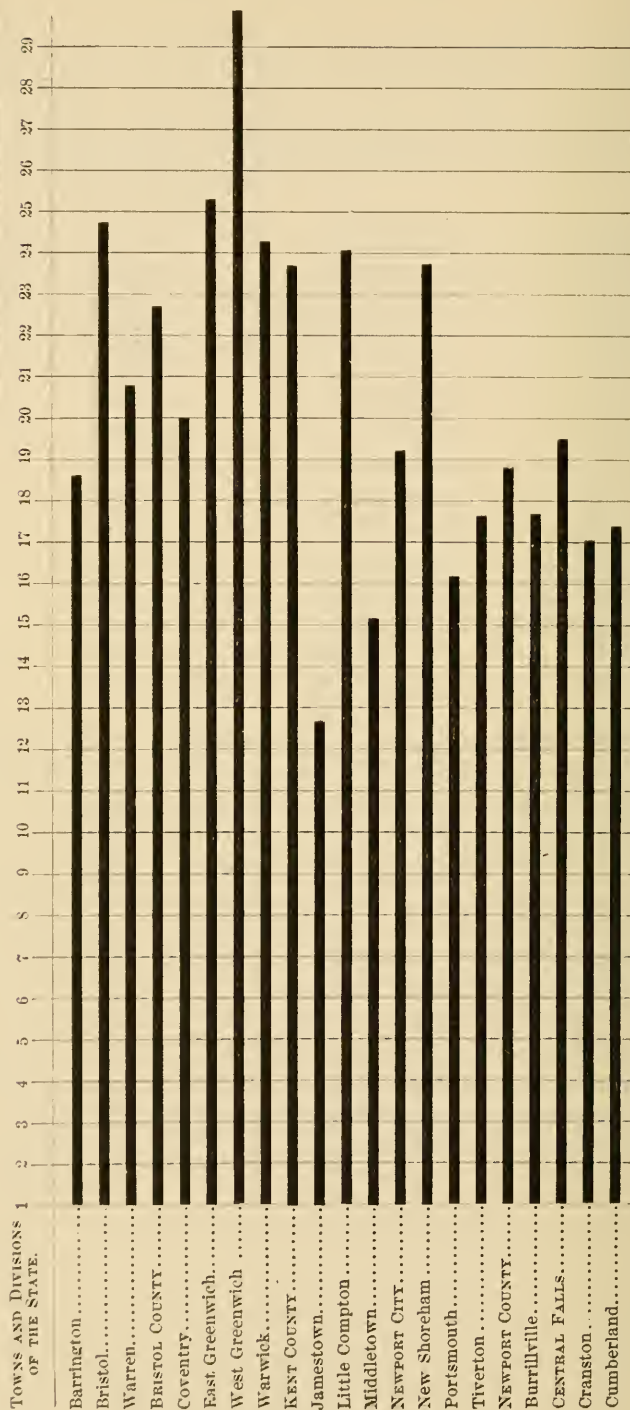


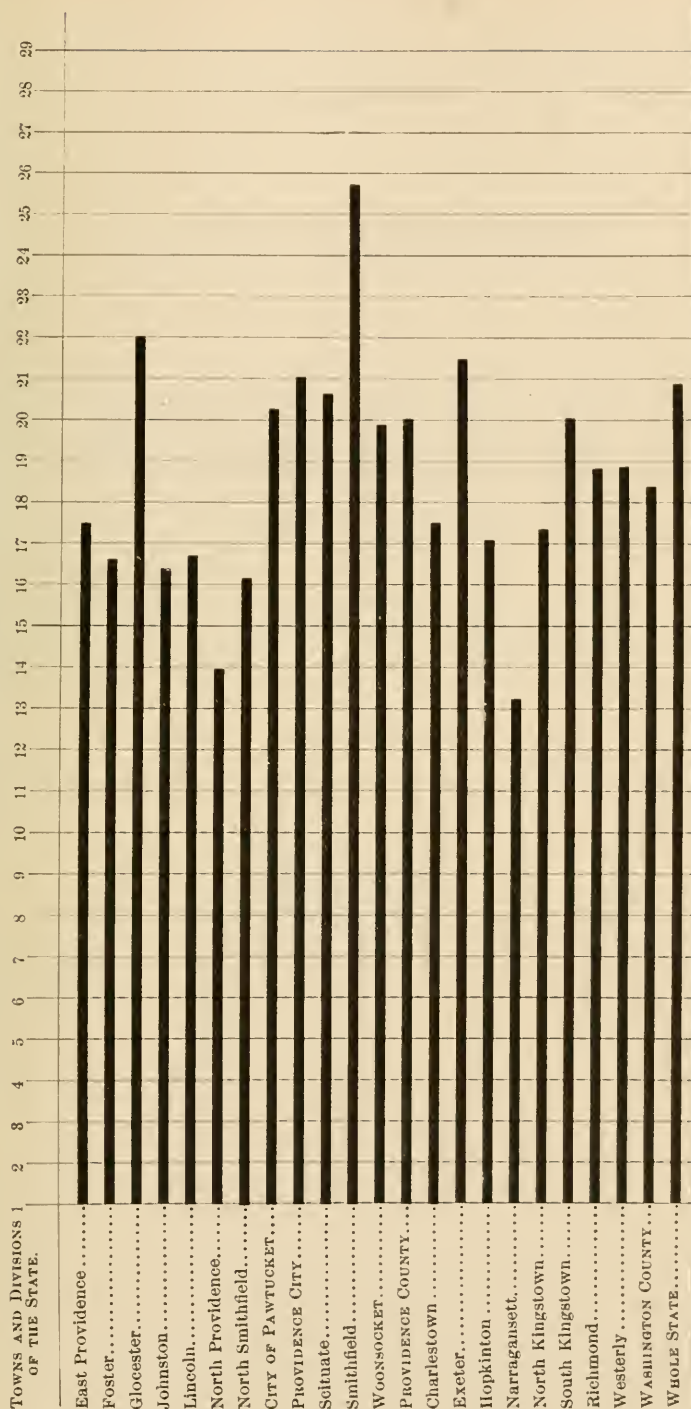


## DEATH RATES.

Diagram II.—Showing the Number of Deaths in every 1,000 of the Population, in each Town and each County in the State, during the Year 1900, computed upon the Population according to the Census of 1900.

For explanation see foot-note on next page.





The figures at the top of the perpendicular lines indicate, in whole numbers, the number of deaths during the year in every 1,000 persons. The spaces are fractional parts of one. For instance, the heavy horizontal line against Barrington, at the top of this diagram, reaches across five-tenths of the space between the perpendicular lines 18 and 19. It shows the death rate of Barrington, in 1900, was eighteen and five-tenths in every 1,000 of the population.



## CAUSES OF DEATH, 1900.

The statistics of the causes of death in Rhode Island, in 1900, may be found in Tables VII, VIII, IX, and X. The whole number of deaths, as previously stated, was 8,823, which was 1,365 greater than the number returned in 1899, and 1,918 greater than the number reported in 1898. The number of which the cause of death was reported was 8,790, and the number of which the cause was not stated was 33.

The following Table shows the number of deaths, in 1900, in each large division of the State, and the number and proportion in each division from which causes were reported unknown :

TABLE LVII.

|                       | Bristol<br>County. | Kent<br>County. | Newport<br>County<br>Towns. | Providence<br>County<br>Towns. | Washington<br>County. | Newport City. | Central Falls. | Pawtucket. | Providence<br>City. | Woonsocket. | Whole State. |
|-----------------------|--------------------|-----------------|-----------------------------|--------------------------------|-----------------------|---------------|----------------|------------|---------------------|-------------|--------------|
| Number of deaths..... | 297                | 708             | 187                         | 1,391                          | 439                   | 423           | 352            | 792        | 3,678               | 556         | 8,823        |
| Cause not stated..... | 1                  | 2               | 1                           | 7                              | 4                     | 1             | .....          | 1          | 13                  | 3           | 33           |
| One in.....           | 297                | 354             | 187                         | 199                            | 110                   | 423           | .....          | 792        | 283                 | 185         | 267          |

TABLE LVIII.

*Proportion of Deaths reported with "Causes Unknown" in each Division of the State, for a period of forty-five years, from 1856 to 1900, inclusive.*

| YEARS.                        | STATE DIVISIONS. |              |                 |                     |                  |                    |              | In every 1,000 Deaths. |
|-------------------------------|------------------|--------------|-----------------|---------------------|------------------|--------------------|--------------|------------------------|
|                               | Bristol County.  | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. | Whole State. |                        |
| 1856-1860. One in every ..... | 18.1             | 5.0          | 7.2             | 5.5                 | 30.7             | 7.3                | 9.4          | 106.8                  |
| 1861-1865. One in every ..... | 32.1             | 13.1         | 16.1            | 7.9                 | 39.3             | 23.7               | 15.1         | 66.0                   |
| 1866-1870. One in every ..... | 83.9             | 8.9          | 26.7            | 7.1                 | 61.8             | 16.4               | 14.1         | 70.9                   |
| 1871-1875. One in every ..... | 38.6             | 8.6          | 13.1            | 9.9                 | 83.4             | 13.6               | 17.1         | 58.4                   |
| 1876. One in every .....      | 11.5             | 7.9          | 18.5            | 9.9                 | 124.3            | 22.8               | 19.3         | 45.8                   |
| 1877. One in every .....      | 201.0            | 17.7         | 9.7             | 11.9                | 323.0            | 16.0               | 23.2         | 43.1                   |
| 1878. One in every .....      | 32.1             | 7.4          | 9.0             | 13.7                | 124.2            | 21.7               | 21.1         | 47.4                   |
| 1879. One in every .....      | 16.6             | 9.2          | 12.4            | 9.5                 | 225.1            | 8.6                | 17.6         | 56.8                   |
| 1880. One in every ....       | 21.9             | 23.5         | 13.5            | 10.5                | 122.3            | 17.8               | 20.7         | 48.3                   |
| 1876-1880. One in every ..... | 31.9             | 17.2         | 19.9            | 18.1                | 39.6             | 26.9               | 25.2         | 39.7                   |
| 1881. One in every .....      | 204.0            | 13.0         | 11.2            | 7.3                 | 143.0            | 6.5                | 14.4         | 69.4                   |
| 1882. One in every .....      | 37.6             | 11.6         | 10.9            | 10.6                | 187.0            | 7.7                | 18.8         | 53.2                   |
| 1883. One in every .....      | 40.4             | 15.9         | 15.0            | 15.3                | 392.8            | 17.0               | 28.4         | 36.2                   |
| 1884. One in every .....      | 100.0            | 40.0         | 81.6            | 91.7                | 372.1            | 90.4               | 122.4        | 8.2                    |
| 1885. One in every .....      | 185.0            | 355.0        | 137.0           | 45.6                | 309.1            | 52.2               | 91.3         | 10.9                   |
| 1881-1885. One in every ..... | 75.4             | 20.1         | 18.8            | 15.7                | 242.2            | 14.0               | 28.6         | 34.9                   |
| 1886. One in every .....      | 110.5            | 192.5        | 86.0            | 87.0                | 195.1            | 55.2               | 113.7        | 7.3                    |
| 1887. One in every .....      | 212.0            | 343.0        | 73.5            | 782.6               | 264.0            | 351.0              | 333.7        | 3.0                    |
| 1888. One in every .....      | 251.0            | 408.0        | 152.7           | 164.3               | 293.8            | 368.0              | 235.7        | 4.3                    |
| 1889. One in every .....      | 208.0            | 152.0        | 221.0           | 176.7               | 120.0            | 338.0              | 160.0        | 6.2                    |
| 1890. One in every .....      | .....            | .....        | 236.0           | 109.0               | 190.0            | 159.0              | 161.0        | 6.2                    |
| 1886-1890. One in every ..... | 576.0            | 413.0        | 125.1           | 154.8               | 189.0            | 171.2              | 177.6        | 5.6                    |
| 1891. One in every .....      | .....            | .....        | 598.0           | 159.0               | 175.0            | 154.0              | 194.0        | 5.1                    |
| 1892. One in every ....       | .....            | .....        | 591.0           | 240.0               | 212.0            | 184.0              | 264.0        | 3.8                    |
| 1893. One in every .....      | 228.0            | 96.3         | 61.2            | 70.2                | 221.0            | 307.0              | 109.9        | 9.1                    |
| 1894. One in every .....      | .....            | 192.3        | 173.0           | 91.6                | 144.9            | 402.0              | 130.2        | 7.7                    |
| 1895. One in every .....      | .....            | 522.0        | 122.7           | 280.6               | 90.9             | 123.7              | 144.9        | 6.9                    |
| 1891-1895. One in every ..... | 1,155.0          | 277.5        | 159.6           | 126.5               | 151.8            | 195.2              | 152.5        | 6.6                    |
| 1896. One in every .....      | .....            | 116.6        | .....           | 707.5               | 155.6            | 382.0              | 258.8        | 3.9                    |
| 1897. One in every .....      | 231.0            | 536.0        | 127.7           | 139.5               | 187.4            | .....              | 284.1        | 3.5                    |
| 1898. One in every .....      | .....            | 172.0        | 164.6           | 596.2               | 366.1            | 184.5              | 345.2        | 2.9                    |
| 1899. One in every .....      | 125.3            | 287.0        | 188.0           | 636.7               | 351.3            | 180.0              | 339.0        | 2.9                    |
| 1900. One in every .....      | 297.0            | 354.0        | 305.0           | 281.0               | 282.9            | 109.8              | 267.3        | 3.7                    |
| 1896-1900. One in every ..... | 302.8            | 221.4        | 225.9           | 500.1               | 212.8            | 213.3              | 293.0        | 3.4                    |

\* Not including Providence city.

TABLE LIX.

*Exhibiting the Order in regard to Number and Proportion of Decedents from Thirteen Principal Causes of Death.*

| 1900.                | 1899.                | 1898.                 | 1897.                | 1896.                  | Jan. 1st, 1888, to Jan.<br>1st, 1897—10 years. | June 1st, 1852, to Dec.<br>31st, 1887—35 years, 7 mos. | Per 1,000 of Whole<br>No. of Deaths,<br>35 years, 7 mos. |
|----------------------|----------------------|-----------------------|----------------------|------------------------|------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|
| Whole Number, 8,823  | Whole Number, 7,458  | Whole Number, 6,905   | Whole Number, 7,110  | Whole Number, 7,504    | Whole Number... 70,552                         | Whole Number.....129,231                               |                                                          |
| Consumption.... 957  | Consumption.... 972  | Consumption.... 886   | Consumption.... 777  | Consumption.... 846    | Consumption..... 7,767                         | Consumption.....19,847                                 | 154.3                                                    |
| Pneumonia..... 506   | Pneumonia..... 686   | Heart Diseases.. 549  | Pneumonia..... 635   | Pneumonia..... 669     | Pneumonia..... 6,213                           | Pneumonia..... 8,298                                   | 64.5                                                     |
| Heart Diseases.. 701 | Heart Diseases.. 648 | Pneumonia..... 542    | Heart Diseases.. 570 | Heart Diseases.. 556   | Cholera Infantum.. 5,193                       | Cholera Infantum..... 6,821                            | 53.1                                                     |
| Cholera Inf..... 557 | Kidney Diseases. 477 | Kidney Diseases. 471  | Apoplexy..... 409    | Cholera Inf..... 545   | Heart Diseases.... 4,959                       | Old Age..... 6,747                                     | 53.0                                                     |
| Kidney Diseases. 516 | Cholera Inf..... 473 | Cholera Inf.,.... 408 | Cholera Inf..... 425 | Apoplexy..... 419      | Apoplexy..... 3,885                            | Heart, Diseases of..... 5,642                          | 43.6                                                     |
| Apoplexy..... 506    | Apoplexy..... 457    | Apoplexy..... 476     | Kidney Diseases. 387 | Kidney Diseases.. 395  | Kidney Diseases... 2,893                       | Dysentery and Diarrhoea 5,106                          | 40.1                                                     |
| Accidents..... 336   | Cancer..... 292      | Brain Diseases.. 327  | Brain Diseases.. 328 | Brain Diseases.... 299 | Bronchitis..... 2,663                          | Apoplexy and Paralysis. 5,050                          | 39.2                                                     |
| Bronchitis..... 295  | Accidents..... 276   | Accidents..... 296    | Accidents..... 293   | Accidents..... 296     | Accidents..... 2,548                           | Scarlet Fever..... 4,971                               | 38.5                                                     |
| Cancer..... 292      | Brain Diseases.. 267 | Cancer..... 279       | Cancer..... 251      | Diphtheria..... 283    | Brain Diseases.... 2,449                       | Fever, Typhoid, etc.... 4,632                          | 36.1                                                     |
| Brain Diseases.. 290 | Bronchitis..... 241  | Bronchitis..... 233   | Diphtheria..... 231  | Bronchitis..... 276    | Old Age..... 2,088                             | Accidents, all kinds.... 3,921                         | 30.3                                                     |
| Influenza..... 255   | Old Age..... 228     | Enteritis..... 233    | Enteritis..... 231   | Enteritis..... 249     | Cancer..... 2,083                              | Diphtheria*..... 3,777                                 | 29.2                                                     |
| Old Age..... 250     | Influenza..... 219   | Old Age..... 205      | Bronchitis..... 226  | Cancer..... 226        | Diphtheria..... 1,921                          | Convulsions..... 2,859                                 | 22.1                                                     |
| Enteritis..... 223   | Enteritis..... 212   | Diphtheria..... 93    | Old Age..... 159     | Old Age..... 206       | Fever, Typhoid.... 1,315                       | Croup..... 2,401                                       | 19.1                                                     |

\* 30 years, 1858 to 1887, inclusive.



The number of deaths from consumption, in 1900, was 15 more than in 1899, an increase of 1.5 per cent.

From pneumonia there was an increase of 280 deaths from that of the previous year, or 40.8 per cent. The fatality from pneumonia has been slowly increasing, in proportion to whole number of deaths, for the last twenty years.

From diseases of the heart there was an increase of 53 deaths from 1900. Diseases of the heart have been steadily increasing as causes of death, the mortality in 1900 being the largest ever recorded in this State.

From kidney diseases there was an increase of 39, or more than 8.5 per cent., over the number in 1899.

There were 255 deaths from influenza, in 1900, an increase of 27 from the number in 1899.

## COMPARATIVE STATISTICS AND COMMENTS.

There have been presented in the preceding pages, numerically and in tabular form, the different causes of death in Rhode Island, in 1900, with various summaries and illustrations. In Tables VII and VIII they were presented at considerable length, in various specific terms; in Table IX more or less grouped in a general nosological arrangement; and in Table X the same for a period of forty-seven years.

In Table VII the number of deaths from *each cause* and of *each sex* is shown, for *each month* in the year, and the *nativity* and *percentage* of the decedents from *each cause* during the year.

In Table VIII the number of decedents of *each sex*, from *each cause*, in the *different periods of life*, is given.

In Table IX, with the Bertillon classification and percentage of causes of death, the number of each general cause, in each division of larger population, is given.

In Table X a nosological summary of causes of death for the whole State, in each of forty-eight years, is given, also the same Table (X) arranged by the Bertillon system.

Table LX is a compend, in part, of Tables VII, VIII, and IX, previously alluded to, and contains the particulars of the most important causes of death in 1900, and comprises the principal causes which will be commented upon in the following pages:





## DEATHS FROM ACCIDENTS.

The number of deaths from accidental causes in Rhode Island, in 1900, was 336.

Among the 336 deaths from accidents there were 29 from asphyxia; 1 by bicycle (in collision with dray, struck in abdomen by pole); 33 burns and scalds; 64 from drowning; 19 by electric car; 2 by elevator; 74 from falls; 4 by firearms; 13 by insolation; 2 by lightning; 7 by machinery; 15 by poison; 27 by railroad; and 46 by various other accidents.

*Asphyxia*.—By bed-clothing or overlaying, 9 (infants); by illuminating gas, 10 (adults); in burning house, 1; by caving in of sand-bank, 2 (laborers); by foreign substance in larynx or trachea, 3 (children); by position of head in bed, 2 (adults); by position of head on floor while intoxicated, 1; under falling building, 1. Total 29.

*Burns and Scalds*.—In burning building, 7 (ages 4 months, 1, 17, 47, 77 years, and 1 unknown age); by bonfire, 1 (age 3 years); playing with matches or fire, 4; by burning beeswax, 1; by clothes taking fire from stove, 6 (ages 1, 7, 17, 24, 29, 78 years); from pipe, 1; explosion of oil-stove, 1; by overturned lamp, 1; by night clothes taking fire from lighted candle, 1 (age 69 years); by falling into hot water, 5; by upset teapot of hot tea, 1 (age 1 year); while tending furnace burned arm (cellulitis ensuing), 1; manner of burns unstated, 2. Total 33.

*Drowning*.—While bathing or swimming, 18; through ice, 2 (ages 6, 11 years); by falling overboard from boats, 10; by falling into water during an attack of epilepsy, 2; by falling into water while playing on edge, 6; into tub of water on floor, 1 (age 2 years); from wreck of schooner Nausett, 4 (ages 11, 13, 45, 60 years); by falling from trestle, 1; by falling into water while intoxicated, 2; while attempting to rescue cap, 1 (age 5 years); while fishing, waded out into deep water, 1 (adult); found in water, manner unknown, 16. Total 64.

*Electric Car*.—Of the persons killed by electric cars 6 were killed in collision; 2 by falling from moving car; 1 (a conductor) by striking head against lamppost while on running board; 8 were struck by car while crossing track or lying beside it; 2 by collision of cars with bicycles. Total 19.



*Falls.*—Down stairs or steps, 16 (ages 1, 20-30; 1, 30-40; 2, 40-50; 2, 50-60; 6, 60-70; 2, 70-80; 2, 80-90; from building or staging, 7; from chimney (a painter), 1; from ladder, 1; from window, 5 (ages 2, 4, 5, 31, 73 years); from telegraph pole, 1; from tree, 2 (ages 34, 84 years); from trestle, 1 (age 10 years); from hay-loft, 1 (age 31 years); from freight-car while playing on top, 1 (age 11 years); from wall or fence, 2 (ages 2, 3 years); from railing of school-house, 1 (age 12 years); from bed, 2 (ages 1, 59 years); down embankment, 1 (age 64 years); from dredge in dry dock, 1 (age 32 years); on floor, ground or sidewalk, 28 (mostly old people—a fractured femur resulting in 10 cases); into coal-pocket, 1; through scuttle or trap-door, 2. Total 74.

*Firearms.*—By wound of hand while cleaning revolver, 1; 1 while gunning with companions; 1 by pistol-shot of finger; and 1 by explosion of an old gun while celebrating Fourth of July. Total 4.

*Poison.*—Corrosive sublimate taken by mistake for throat tablets, 1; laudanum, 1; by proprietary medicine, 1; by eating mushrooms, 1; by belladonna, 1; by strichnia tablets, 1; by sucking parlor matches, 1 (age 2 years); phosphorous poisoning, method and cause of taking unknown, 1; by whiskey (child drank unknown quantity from jug), 1; wood alcohol, 2; by drinking solution of potash (with which mother was washing floor), 1; by lead, 2 (painters); unspecified, 1. Total 15.

*Railroad.*—Of the 8 employees who were killed, 5 fell from moving cars, 1 was struck by overhead bridge, and 2 were coupling cars. Of the remainder who were killed, 1 was a passenger who fell or jumped from the train before it stopped at station; 17 were trespassers—10 of whom were walking on the tracks; 3 were stealing rides on freight cars and were struck by overhead bridge; 1 was found under coal trestle; 1 was found dead in a freight car; 1 was sitting upon station platform and was struck by passing engine; 1 jumped or fell from overhead bridge upon the engine; and 1 other was killed at grade crossing. Total 27.

*Accidents, Various.*—Thrown from carriage or wagon, 6; run over by heavy teams, 5 (ages 4, 5, 45, 68 years); kicked by horse, 4 (ages 7, 42, 56, 85 years); from seemingly slight wounds of hand tetanus resulted in two cases and septicæmia in four cases; wound of foot by rusty nail (tetanus resulted), 2; stepped on potato-digger causing tetanus, 1; cut foot with dirty jackknife (septicæmia resulting), 1; other slight wounds of foot while at play, with septicæmia as a result, 2; shock from electric-light wire (a lineman), 1; elec-



trical shock received by falling against switchboard in station, 1; concussion of brain, manner of accident unspecified, 2; explosion of powder (delayed ignition), 1; frost-bite of hand, resulting in cellulitis of hand and arm, 1; axe-wound of knee, 1; crushed beneath boat, 1; struck by base-ball, 1; crushed by rails while unloading them, 1; crushed by bale of cotton, 1; fall of bar on leg, 1; crushed by falling coal from bucket, 1; scalp-wound from pointed pole in farmyard (septicæmia following), 1; crushed by falling stone from upset team, 1; stab-wound of abdomen with scissors in hands of another boy, 1; unspecified, 3. Total 46.

Comparison of the number of deaths from street-car accidents during the last four years presents the following figures :

|           | Struck by cars. | Collision of cars. | Otherwise. | Total. |
|-----------|-----------------|--------------------|------------|--------|
| 1897..... | 4.....          | 1.....             | 2.....     | 7      |
| 1898..... | 6.....          | 0.....             | 1.....     | 7      |
| 1899..... | 3.....          | 1.....             | 1.....     | 7      |
| 1900..... | 8.....          | 6.....             | 5.....     | 19     |

As a result of inattention on the part of those having the care of children, 3 fell into hot water while the attention of the mother was engaged elsewhere, the receptacles containing the hot water being left sufficiently convenient for the children to climb or fall into them; 1 pulled over upon himself teapot containing hot tea; 5 children were poisoned by being allowed access to poisonous substances; 6 children received burns which caused death, as the result of playing with bonfires or matches.

It is interesting to note the large number of cases resulting from fractures of the long bones as the sequence of a slight fall. This is especially noticeable in fractures of the hip in old people. Of the sixteen who died from falls downstairs, 12 were over 50 years of age. Fourteen out of the 28 falls on floor, ground, or sidewalk, that is, on a level, were people of over 50 years of age.

Of the whole number of deaths by accidents, 254 were males and 82 were females; 110 were of native and 226 of foreign parentage, or 32.7 per cent. of native to 67.3 of foreign.

Of the sexes, the proportion was 75.6 per cent. of male decedents to 24.4 per cent. of female decedents.

In regard to periods of life, the decedents from accidental causes were divided as follows: under 5 years, 52; 5 and under 10, 19; between 10 and 20, 38; between 20 and 40, 90; between 40 and 60, 80; over 60, 57.

In regard to sectional divisions of the State, 15 of the deaths from accidental causes were in Bristol county; 30 in Kent county; 12 in Newport county; 260 in Providence county; and 19 in Washington county.

The whole number of deaths from accidental causes, in 1900, *in proportion to the whole number of deaths* in the State, was 38 in every one thousand. The number in proportion to the whole *population* was .78 in every one thousand.

The number of deaths by accidents in each division of the year was as follows:

|                     |     |                     |     |
|---------------------|-----|---------------------|-----|
| First Quarter.....  | 78  | Third Quarter.....  | 105 |
| Second Quarter..... | 82  | Fourth Quarter..... | 71  |
| <hr/>               |     | <hr/>               |     |
| First half.....     | 160 | Second half.....    | 176 |
| <hr/>               |     |                     |     |
| Whole year.....     |     | 336                 |     |

In the following Table may be found the number, sex, parentage, and locality of mortality from accidents, for thirty-five years, ending December 31, 1900:

## TABLE LXI.

*Mortality in the State from Accidents, with the Percentage of the Whole Number of Deaths; Sex, Parentage, and Locality, for thirty-five years, from 1866 to 1900, inclusive, in three periods of five years each, and for each of the last twenty years.*

| YEARS.                  | Whole Number. | VARIETIES.        |           |        |                           |            |           |              |                           | SEX. |      | PARENT-AGE. |      | STATE DIVISIONS. |        |          |         |          |                 |              |
|-------------------------|---------------|-------------------|-----------|--------|---------------------------|------------|-----------|--------------|---------------------------|------|------|-------------|------|------------------|--------|----------|---------|----------|-----------------|--------------|
|                         |               | Burns and Scalds. | Drowning. | Falls. | Fractures and Contusions. | Poisoning. | Railroad. | Suffocation. | Various and Un-specified. |      |      |             |      | Per cent.        | Males. | Females. | Native. | Foreign. | Bristol County. | Kent County. |
| 5 yrs., 1866-1870. .... | 490           | 77                | 124       | 89     | ....                      | 14         | 43        | ...          | 143                       | 2.18 | 375  | 115         | 238  | 252              | 22     | 34       | 46      | 187      | 162             | 39           |
| 5 yrs., 1871-1875. .... | 610           | 78                | 164       | 90     | ....                      | 21         | 71        | ...          | 186                       | 2.97 | 493  | 117         | 283  | 327              | 26     | 46       | 50      | 200      | 240             | 48           |
| 5 yrs., 1876-1880. .... | 607           | 75                | 166       | 69     | ....                      | 28         | 58        | 14           | 197                       | 2.72 | 450  | 157         | 249  | 358              | 17     | 53       | 47      | 178      | 281             | 31           |
| 1881. ....              | 155           | 16                | 29        | 19     | ....                      | 9          | 20        | 19           | 43                        | 3.09 | 107  | 48          | 62   | 93               | 5      | 17       | 12      | 60       | 56              | 5            |
| 1882. ....              | 178           | 17                | 40        | 31     | ....                      | 6          | 16        | 8            | 60                        | 3.50 | 130  | 48          | 72   | 106              | 5      | 9        | 15      | 60       | 80              | 9            |
| 1883. ....              | 153           | 18                | 27        | 21     | ....                      | 6          | 16        | 12           | 53                        | 2.83 | 117  | 36          | 61   | 92               | 4      | 8        | 9       | 63       | 66              | 3            |
| 1884. ....              | 197           | 20                | 41        | 31     | ....                      | 7          | 16        | 11           | 71                        | 3.82 | 147  | 50          | 90   | 107              | 5      | 19       | 14      | 65       | 76              | 18           |
| 1885. ....              | 173           | 19                | 42        | 25     | ....                      | 9          | 15        | 9            | 54                        | 3.20 | 135  | 38          | 72   | 101              | 5      | 6        | 8       | 58       | 83              | 13           |
| 1881-1885. ....         | 856           | 90                | 179       | 127    | ....                      | 37         | 83        | 59           | 281                       | 3.26 | 636  | 220         | 357  | 499              | 24     | 59       | 58      | 306      | 361             | 48           |
| 1886. ....              | 190           | 23                | 58        | 19     | ....                      | 6          | 20        | 9            | 55                        | 3.25 | 141  | 49          | 84   | 106              | 16     | 11       | 16      | 62       | 72              | 13           |
| 1887. ....              | 206           | 17                | 39        | 17     | 23                        | 7          | 24        | 14           | 65                        | 3.24 | 158  | 48          | 92   | 114              | 5      | 11       | 23      | 81       | 71              | 15           |
| 1888. ....              | 190           | 27                | 46        | 18     | 8                         | 12         | 25        | 8            | 46                        | 2.87 | 145  | 45          | 63   | 127              | 4      | 6        | 14      | 70       | 88              | 8            |
| 1889. ....              | 216           | 20                | 52        | 31     | 25                        | 7          | 23        | 9            | 49                        | 4.10 | 146  | 70          | 88   | 128              | 2      | 14       | 13      | 73       | 101             | 13           |
| 1890. ....              | 250           | 20                | 71        | 32     | 26                        | 11         | 31        | 12           | 47                        | 3.60 | 199  | 51          | 99   | 151              | 7      | 17       | 24      | 75       | 111             | 16           |
| 1886-1890. ....         | 1052          | 107               | 266       | 117    | 82                        | 43         | 123       | 52           | 262                       | 3.29 | 789  | 263         | 426  | 626              | 34     | 59       | 90      | 361      | 443             | 65           |
| 1891. ....              | 233           | 18                | 52        | 21     | 29                        | 16         | 30        | 17           | 50                        | 3.54 | 174  | 59          | 78   | 155              | 5      | 18       | 16      | 95       | 89              | 10           |
| 1892. ....              | 309           | 21                | 48        | 33     | 60                        | 20         | 29        | 8            | 90                        | 4.18 | 225  | 84          | 115  | 194              | 8      | 13       | 21      | 100      | 158             | 9            |
| 1893. ....              | 261           | 26                | 47        | 25     | 25                        | 14         | 39        | 14           | 74                        | 3.55 | 195  | 69          | 88   | 176              | 9      | 21       | 21      | 75       | 126             | 12           |
| 1894. ....              | 231           | 28                | 52        | 29     | 20                        | 8          | 36        | 21           | 40                        | 3.27 | 189  | 45          | 74   | 160              | 6      | 24       | 18      | 88       | 81              | 17           |
| 1895. ....              | 293           | 28                | 61        | 57     | 2                         | 8          | 36        | 26           | 75                        | 3.89 | 233  | 60          | 88   | 205              | 6      | 23       | 13      | 85       | 141             | 25           |
| 1891-1895. ....         | 1323          | 121               | 260       | 165    | 136                       | 66         | 170       | 86           | 329                       | 3.69 | 1016 | 317         | 443  | 890              | 34     | 99       | 89      | 443      | 595             | 73           |
| 1896. ....              | 296           | 25                | 39        | 48     | ....                      | 8          | 39        | 21           | 116                       | 3.94 | 226  | 70          | 101  | 195              | 6      | 25       | 24      | 85       | 139             | 17           |
| 1897. ....              | 263           | 41                | 40        | 64     | ....                      | 7          | 24        | 22           | 65                        | 3.70 | 197  | 66          | 94   | 169              | 12     | 15       | 22      | 87       | 115             | 12           |
| 1898. ....              | 296           | 21                | 60        | 58     | ....                      | 8          | 30        | 19           | 100                       | 4.29 | 233  | 63          | 111  | 185              | 11     | 18       | 26      | 85       | 134             | 22           |
| 1899. ....              | 276           | 28                | 45        | 61     | ....                      | 7          | 38        | 31           | 66                        | 3.70 | 217  | 59          | 109  | 167              | 9      | 16       | 30      | 82       | 125             | 14           |
| 1900. ....              | 336           | 33                | 64        | 72     | ....                      | 16         | 26        | 29           | 96                        | 3.81 | 254  | 82          | 110  | 226              | 15     | 30       | 12      | 101      | 159             | 19           |
| 1896-1900. ....         | 1467          | 148               | 248       | 303    | ...                       | 46         | 154       | 125          | 443                       | 3.88 | 1127 | 340         | 525  | 942              | 53     | 164      | 114     | 410      | 672             | 84           |
| Total, 35 yrs           | 6415          | 696               | 1407      | 960    | 218                       | 255        | 702       | 336          | 1841                      | 3.56 | 4886 | 1529        | 2521 | 3894             | 210    | 454      | 494     | 2115     | 2754            | 388          |

\* Exclusive of Providence city.

TABLE LXII.

*Mortality in the State from Alcoholism, with the Percentage of the Whole Number of Deaths, Sex, Parentage, and Locality, for thirty-five years, from 1866 to 1900, inclusive.*

| YEARS.             | Number of Deaths from Alcoholism. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|--------------------|-----------------------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                    |                                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 5 years, 1866-1870 | 62                                | .40       | 53     | 9        | 32         | 30       | 5                       | 6            | 6               | 18                  | 25               | 2                  |
| 5 years, 1871-1875 | 93                                | .45       | 73     | 20       | 37         | 56       | 2                       | 6            | 9               | 25                  | 48               | 3                  |
| 5 years, 1876-1880 | 79                                | .35       | 52     | 27       | 25         | 54       | 2                       | 4            | 6               | 18                  | 45               | 4                  |
| 1881.....          | 24                                | .51       | 17     | 7        | 5          | 19       | 1                       | .....        | 1               | 7                   | 11               | 1                  |
| 1882.....          | 28                                | .58       | 16     | 12       | 8          | 20       | .....                   | .....        | .....           | 9                   | 18               | 1                  |
| 1883.....          | 29                                | .54       | 17     | 12       | 7          | 22       | .....                   | 1            | 1               | 10                  | 16               | 1                  |
| 1884.....          | 27                                | .53       | 19     | 8        | 10         | 17       | .....                   | 1            | 4               | 9                   | 12               | 1                  |
| 1885.....          | 22                                | .41       | 16     | 6        | 6          | 16       | 2                       | 1            | .....           | 11                  | 7                | 1                  |
| 1881-1885.....     | 130                               | .50       | 85     | 45       | 36         | 94       | 3                       | 3            | 6               | 46                  | 67               | 5                  |
| 1886.....          | 12                                | .20       | 9      | 3        | 2          | 10       | 1                       | .....        | 1               | 3                   | 7                | .....              |
| 1887.....          | 16                                | .25       | 14     | 2        | 4          | 12       | 2                       | 2            | 2               | 5                   | 4                | 1                  |
| 1888.....          | 16                                | .32       | 10     | 6        | 5          | 11       | .....                   | .....        | 2               | 5                   | 9                | .....              |
| 1889.....          | 31                                | .50       | 23     | 8        | 12         | 19       | 2                       | 1            | 1               | 13                  | 14               | .....              |
| 1890.....          | 25                                | .37       | 20     | 5        | 8          | 17       | 2                       | .....        | .....           | 11                  | 11               | 1                  |
| 1886-1890.....     | 100                               | .31       | 76     | 24       | 31         | 69       | 7                       | 3            | 6               | 37                  | 45               | 2                  |
| 1891.....          | 29                                | .47       | 22     | 7        | 8          | 21       | 1                       | 1            | 4               | 10                  | 13               | .....              |
| 1892.....          | 36                                | .48       | 27     | 9        | 8          | 28       | 1                       | .....        | 4               | 12                  | 17               | 2                  |
| 1893.....          | 44                                | .59       | 34     | 10       | 15         | 29       | .....                   | 3            | 7               | 9                   | 23               | 2                  |
| 1894.....          | 39                                | .54       | 33     | 6        | 12         | 27       | 1                       | 4            | 2               | 14                  | 16               | 2                  |
| 1895.....          | 24                                | .32       | 19     | 5        | 5          | 19       | .....                   | .....        | .....           | 10                  | 13               | 1                  |
| 1891-1895.....     | 172                               | .48       | 135    | 37       | 48         | 124      | 3                       | 8            | 17              | 55                  | 82               | 7                  |
| 1896.....          | 34                                | .45       | 28     | 6        | 7          | 27       | 1                       | 2            | 6               | 10                  | 14               | 1                  |
| 1897.....          | 36                                | .51       | 26     | 10       | 10         | 26       | .....                   | 1            | 5               | 11                  | 15               | 4                  |
| 1898.....          | 45                                | .65       | 37     | 8        | 13         | 32       | .....                   | 3            | 3               | 13                  | 22               | 4                  |
| 1899.....          | 34                                | .45       | 26     | 8        | 9          | 25       | 1                       | 3            | 4               | 9                   | 16               | 1                  |
| 1900.....          | 62                                | .70       | 47     | 15       | 12         | 50       | 1                       | 2            | 3               | 12                  | 42               | 2                  |
| 1896-1900.....     | 211                               | .56       | 164    | 47       | 51         | 160      | 3                       | 11           | 21              | 55                  | 109              | 12                 |
| Total, 35 years..  | 817                               | .45       | 638    | 209      | 260        | 587      | 25                      | 41           | 71              | 254                 | 421              | 35                 |

\* Exclusive of Providence city.

## APOPLEXY AND PARALYSIS.

There were 506 deaths from apoplexy and paralysis in Rhode Island, in 1900, according to the returns. The number reported is 49 more than in the year 1899.

The whole number of deaths from these two causes represents 5.74 per cent. of *all causes*, and a proportion of 1.11 to every one thousand of the population.

Of the sexes, there were 248 males and 258 females.

Of parentage, 275 were of native parentage, and 231 of foreign.

As observed in previous reports, the older native population has steadily been, in a very large proportion, more prone to apoplexy than the foreign, or the children of the foreign, population.

It will be observed that the proportion of deaths from apoplexy and paralysis, to the whole mortality from all causes, has steadily increased from about three and three-quarters per cent., during the first quinquennial (1866-1870), to nearly six per cent. during the quinquennial (1896-1900).

The following Table will present the sex, parental, and local relations of apoplexy and paralysis, as causes of death, during the last thirty-five years (Providence city not included in the Providence county statement):



## TABLE LXIII.

*Mortality in the State from Apoplexy and Paralysis, 1866 to 1900, inclusive.*

| YEARS.      | Total Deaths for Year. | Number from Apoplexy and Paralysis. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|-------------|------------------------|-------------------------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|             |                        |                                     |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 1866-1870.. | 15,391                 | 574                                 | 3.73      | 284    | 290      | 464        | 110      | 52                      | 43           | 77              | 145                 | 224              | 33                 |
| 1871.....   | 3,844                  | 156                                 | 4.06      | 73     | 83       | 113        | 43       | 10                      | 17           | 15              | 40                  | 61               | 13                 |
| 1872.....   | 4,247                  | 125                                 | 2.97      | 62     | 63       | 96         | 29       | 17                      | 9            | 10              | 27                  | 52               | 10                 |
| 1873.....   | 4,403                  | 134                                 | 3.04      | 59     | 75       | 109        | 25       | 9                       | 8            | 17              | 26                  | 57               | 17                 |
| 1874.....   | 4,229                  | 156                                 | 3.69      | 84     | 72       | 120        | 36       | 14                      | 10           | 16              | 42                  | 59               | 15                 |
| 1875.....   | 4,317                  | 166                                 | 3.61      | 79     | 87       | 133        | 33       | 7                       | 13           | 17              | 46                  | 75               | 8                  |
| 1871-1875.. | 20,540                 | 737                                 | 3.59      | 357    | 380      | 571        | 166      | 57                      | 57           | 75              | 181                 | 304              | 63                 |
| 1876.....   | 4,116                  | 165                                 | 4.01      | 79     | 86       | 130        | 35       | 13                      | 11           | 13              | 45                  | 68               | 15                 |
| 1877.....   | 4,450                  | 181                                 | 4.07      | 87     | 94       | 123        | 58       | 10                      | 10           | 16              | 52                  | 74               | 19                 |
| 1878.....   | 4,441                  | 188                                 | 4.23      | 104    | 84       | 145        | 43       | 12                      | 16           | 21              | 58                  | 66               | 15                 |
| 1879.....   | 4,472                  | 220                                 | 4.92      | 114    | 106      | 146        | 74       | 12                      | 9            | 29              | 71                  | 89               | 10                 |
| 1880.....   | 4,829                  | 215                                 | 4.67      | 109    | 106      | 157        | 58       | 18                      | 13           | 22              | 71                  | 78               | 13                 |
| 1876-1880.. | 22,308                 | 969                                 | 4.77      | 493    | 476      | 701        | 268      | 65                      | 59           | 101             | 297                 | 375              | 72                 |
| 1881.....   | 5,016                  | 244                                 | 4.86      | 116    | 128      | 170        | 74       | 17                      | 15           | 25              | 70                  | 101              | 16                 |
| 1882.....   | 5,071                  | 265                                 | 5.22      | 139    | 126      | 168        | 97       | 15                      | 29           | 24              | 65                  | 117              | 15                 |
| 1883.....   | 5,282                  | 275                                 | 5.22      | 138    | 137      | 192        | 83       | 11                      | 28           | 22              | 75                  | 118              | 21                 |
| 1884.....   | 5,141                  | 298                                 | 5.80      | 135    | 163      | 176        | 122      | 21                      | 14           | 28              | 108                 | 105              | 22                 |
| 1885.....   | 5,389                  | 289                                 | 5.38      | 144    | 145      | 183        | 106      | 16                      | 18           | 28              | 99                  | 110              | 18                 |
| 1881-1885.. | 25,902                 | 1,371                               | 5.29      | 672    | 699      | 889        | 482      | 80                      | 104          | 127             | 417                 | 651              | 92                 |
| 1886.....   | 5,849                  | 333                                 | 5.70      | 173    | 160      | 230        | 103      | 11                      | 27           | 32              | 108                 | 130              | 35                 |
| 1887.....   | 6,340                  | 328                                 | 5.17      | 161    | 167      | 213        | 115      | 21                      | 27           | 23              | 101                 | 128              | 28                 |
| 1888.....   | 6,594                  | 367                                 | 5.41      | 164    | 203      | 234        | 133      | 29                      | 26           | 29              | 113                 | 137              | 33                 |
| 1889.....   | 6,259                  | 323                                 | 5.17      | 140    | 183      | 204        | 119      | 23                      | 32           | 28              | 101                 | 106              | 33                 |
| 1890.....   | 6,934                  | 341                                 | 4.91      | 168    | 173      | 206        | 135      | 21                      | 21           | 23              | 110                 | 144              | 22                 |
| 1886-1890.. | 31,976                 | 1,692                               | 5.29      | 806    | 886      | 1,087      | 605      | 105                     | 133          | 135             | 533                 | 635              | 151                |
| 1891.....   | 6,620                  | 335                                 | 5.08      | 160    | 175      | 207        | 128      | 17                      | 29           | 32              | 118                 | 118              | 21                 |
| 1892.....   | 7,396                  | 362                                 | 4.29      | 176    | 186      | 195        | 167      | 12                      | 29           | 39              | 124                 | 134              | 24                 |
| 1893.....   | 7,440                  | 407                                 | 5.47      | 206    | 201      | 227        | 180      | 21                      | 28           | 26              | 138                 | 171              | 23                 |
| 1894.....   | 7,160                  | 443                                 | 6.22      | 231    | 214      | 243        | 202      | 19                      | 33           | 40              | 155                 | 165              | 33                 |
| 1895.....   | 7,535                  | 417                                 | 5.53      | 199    | 218      | 238        | 179      | 18                      | 29           | 30              | 150                 | 153              | 37                 |
| 1891-1895.. | 36,151                 | 1,966                               | 5.71      | 972    | 994      | 1,110      | 856      | 87                      | 148          | 167             | 685                 | 741              | 138                |
| 1896.....   | 7,504                  | 419                                 | 5.58      | 199    | 220      | 235        | 184      | 20                      | 30           | 42              | 146                 | 141              | 40                 |
| 1897.....   | 7,110                  | 469                                 | 6.70      | 229    | 240      | 263        | 206      | 13                      | 33           | 40              | 175                 | 184              | 24                 |
| 1898.....   | 6,905                  | 416                                 | 6.02      | 203    | 213      | 245        | 171      | 17                      | 30           | 48              | 136                 | 152              | 33                 |
| 1899.....   | 7,458                  | 457                                 | 6.13      | 210    | 247      | 230        | 227      | 19                      | 32           | 36              | 154                 | 179              | 37                 |
| 1900.....   | 8,823                  | 506                                 | 5.74      | 248    | 258      | 275        | 231      | 18                      | 38           | 49              | 175                 | 189              | 37                 |
| 1896-1900.. | 37,800                 | 2,267                               | 6.00      | 1,089  | 1,178    | 1,248      | 1,019    | 87                      | 163          | 215             | 786                 | 845              | 171                |

\* Not including Providence city.



TABLE LXIV.

*Ages of Decedents from Apoplexy and Paralysis, in each of the last thirty-five years.*

| APOPLEXY AND PARALYSIS. | PERIODS OF LIFE. |           |           |           |           |           |           |              | Not stated. |
|-------------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|-------------|
|                         | Under 20.        | 20 to 30. | 30 to 40. | 40 to 50. | 50 to 60. | 60 to 70. | 70 to 80. | 80 and over. |             |
| 1866 .....              | 1                | 1         | 7         | 16        | 9         | 24        | 27        | 7            | .....       |
| 1867.....               | 2                | .....     | 6         | 6         | 15        | 38        | 40        | 17           | .....       |
| 1868.....               | 2                | 3         | 3         | 11        | 16        | 27        | 31        | 16           | 2           |
| 1869.....               | 1                | 1         | 5         | 12        | 20        | 28        | 34        | 15           | 1           |
| 1870.....               | 4                | 1         | 10        | 9         | 12        | 33        | 41        | 20           | .....       |
| 1871.....               | 3                | 4         | 7         | 14        | 21        | 46        | 45        | 15           | 1           |
| 1872.....               | 1                | 4         | 5         | 17        | 20        | 26        | 41        | 11           | .....       |
| 1873.....               | 2                | 3         | 4         | 14        | 22        | 35        | 37        | 16           | 1           |
| 1874.....               | 1                | 2         | 9         | 9         | 30        | 39        | 40        | 25           | 1           |
| 1875.....               | 6                | 2         | 8         | 19        | 23        | 40        | 45        | 22           | 1           |
| 1876.....               | 4                | 4         | 4         | 13        | 25        | 43        | 49        | 23           | .....       |
| 1877.....               | 1                | 2         | 9         | 12        | 21        | 50        | 61        | 22           | .....       |
| 1878.....               | 4                | 2         | 7         | 14        | 41        | 40        | 53        | 26           | 1           |
| 1879.....               | 4                | 6         | 11        | 18        | 27        | 57        | 59        | 38           | .....       |
| 1880.....               | 1                | 2         | 8         | 18        | 21        | 59        | 70        | 34           | 2           |
| 1881.....               | 1                | 7         | 11        | 20        | 36        | 55        | 70        | 42           | 2           |
| 1882.....               | 4                | 5         | 14        | 28        | 41        | 57        | 77        | 38           | 1           |
| 1883.....               | 8                | 4         | 11        | 19        | 45        | 56        | 83        | 49           | .....       |
| 1884.....               | 10               | 7         | 16        | 21        | 32        | 68        | 95        | 45           | 4           |
| 1885.....               | 8                | 5         | 7         | 25        | 29        | 76        | 91        | 44           | 1           |
| 1886.....               | 7                | 8         | 10        | 25        | 52        | 65        | 112       | 51           | 3           |
| 1887.....               | 12               | 6         | 13        | 26        | 50        | 90        | 96        | 35           | .....       |
| 1888.....               | 10               | 4         | 18        | 29        | 61        | 85        | 100       | 60           | .....       |
| 1889.....               | 6                | 6         | 11        | 36        | 45        | 87        | 92        | 39           | 1           |
| 1890.....               | 7                | 5         | 13        | 29        | 52        | 84        | 100       | 50           | 1           |
| 1891.....               | 4                | 6         | 15        | 21        | 61        | 88        | 90        | 47           | .....       |
| 1892.....               | 3                | 6         | 17        | 40        | 60        | 91        | 95        | 49           | 1           |
| 1893.....               | 13               | 6         | 19        | 45        | 62        | 110       | 108       | 43           | 1           |
| 1894.....               | 12               | 5         | 16        | 39        | 88        | 108       | 111       | 65           | 1           |
| 1895.....               | 6                | 2         | 24        | 39        | 76        | 101       | 106       | 63           | .....       |
| 1896.....               | 1                | 7         | 17        | 31        | 76        | 118       | 110       | 55           | 1           |
| 1897.....               | 3                | 3         | 12        | 37        | 77        | 136       | 144       | 57           | .....       |
| 1898.....               | 3                | 8         | 12        | 37        | 75        | 108       | 117       | 54           | 2           |
| 1899.....               | 5                | 6         | 21        | 34        | 73        | 118       | 118       | 81           | 1           |
| 1900.....               | 6                | 5         | 19        | 42        | 97        | 134       | 131       | 71           | 1           |
| Total .....             | 166              | 148       | 399       | 831       | 1,514     | 2,430     | 2,722     | 1,315        | 31          |

APPENDICITIS.

From a greater perfection in diagnosis of disease of the abdominal viscera, the disease known as appendicitis has received greater attention. This was probably reported in previous years under the head of diseases of the bowels, intussusception, or peritonitis.

During 1900 there were 34 deaths from appendicitis reported, and of this number operations were performed in 24 cases.

As there were 15 deaths from peritonitis in 1900, this would represent over sixty-nine per cent. of the combined numbers.

Of the 34 cases of appendicitis, 23 were males, and 11 were females. 14 were of native, and 20 of foreign parentage.

BRAIN DISEASES.

The number of decedents from diseases of the brain proper, in 1900, was 290.

This number represents 3.29 per cent. of *all causes*, and a proportion of .61 to every one thousand of the whole *population*.

Of the 290 decedents, 161 were males, and 129 were females.

In regard to parentage, 126 were of native, and 164 of foreign parentage.

The deaths in the different seasons of the year were as follows:

|                     |     |                     |     |
|---------------------|-----|---------------------|-----|
| First Quarter ..... | 60  | Third Quarter.....  | 86  |
| Second Quarter..... | 77  | Fourth Quarter..... | 67  |
| <hr/>               |     |                     |     |
| First half.....     | 137 | Second half.....    | 153 |
| <hr/>               |     |                     |     |
| Whole year..... 290 |     |                     |     |

Brain diseases occur largely in children. Of the 290 decedents from those causes, in 1900, 160 were under five years of age, and 17 were from 5 to 10 years of age.

The following Table will present the statistics of mortality from diseases of the brain, for thirty-five years:

TABLE LXV.

*Mortality in the State from Brain Diseases, with the Percentage, Sex, Parentage, and Locality, for thirty-five years, from 1866 to 1900, inclusive.*

| YEARS.            | Number of Deaths from Brain Diseases. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|-------------------|---------------------------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                   |                                       |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 1866-1870.....    | 465                                   | 3.02      | 249    | 216      | 274        | 191      | 21                      | 24           | 34              | 139                 | 222              | 25                 |
| 1871-1875.....    | 607                                   | 2.95      | 331    | 276      | 358        | 249      | 12                      | 32           | 39              | 167                 | 337              | 20                 |
| 1876.....         | 150                                   | 3.64      | 92     | 58       | 89         | 61       | 3                       | 11           | 7               | 39                  | 85               | 5                  |
| 1877.....         | 160                                   | 3.59      | 88     | 72       | 91         | 69       | 3                       | 7            | 11              | 49                  | 85               | 5                  |
| 1878.....         | 142                                   | 3.19      | 75     | 67       | 76         | 66       | 1                       | 13           | 12              | 45                  | 68               | 3                  |
| 1879.....         | 163                                   | 3.05      | 82     | 81       | 88         | 75       | 3                       | 13           | 15              | 51                  | 75               | 6                  |
| 1880.....         | 164                                   | 3.39      | 87     | 77       | 89         | 75       | 3                       | 6            | 12              | 56                  | 81               | 6                  |
| 1876-1880.....    | 779                                   | 3.49      | 424    | 355      | 433        | 346      | 13                      | 50           | 57              | 240                 | 394              | 25                 |
| 1881.....         | 186                                   | 3.69      | 103    | 83       | 85         | 101      | 7                       | 11           | 14              | 58                  | 91               | 5                  |
| 1882.....         | 181                                   | 3.50      | 93     | 88       | 92         | 89       | 4                       | 10           | 10              | 71                  | 80               | 6                  |
| 1883.....         | 187                                   | 3.54      | 96     | 91       | 100        | 87       | 8                       | 14           | 15              | 52                  | 94               | 4                  |
| 1884.....         | 148                                   | 2.88      | 90     | 58       | 77         | 71       | 4                       | 9            | 8               | 41                  | 83               | 3                  |
| 1885.....         | 189                                   | 2.51      | 98     | 91       | 94         | 95       | 2                       | 11           | 20              | 53                  | 100              | 3                  |
| 1881-1885.....    | 891                                   | 3.44      | 480    | 411      | 448        | 443      | 25                      | 55           | 67              | 275                 | 448              | 21                 |
| 1886.....         | 182                                   | 3.09      | 108    | 74       | 84         | 98       | 4                       | 14           | 13              | 69                  | 78               | 4                  |
| 1887.....         | 203                                   | 3.21      | 120    | 83       | 103        | 100      | 8                       | 9            | 14              | 75                  | 95               | 2                  |
| 1888.....         | 212                                   | 3.21      | 114    | 98       | 109        | 103      | 4                       | 19           | 12              | 76                  | 90               | 11                 |
| 1889.....         | 189                                   | 3.58      | 91     | 98       | 96         | 93       | 5                       | 12           | 17              | 72                  | 78               | 5                  |
| 1890.....         | 217                                   | 3.13      | 113    | 104      | 119        | 98       | 7                       | 13           | 17              | 90                  | 85               | 5                  |
| 1886-1890.....    | 1,003                                 | 3.11      | 546    | 457      | 511        | 492      | 28                      | 67           | 73              | 382                 | 426              | 27                 |
| 1891.....         | 222                                   | 3.36      | 135    | 87       | 108        | 114      | 8                       | 19           | 19              | 93                  | 78               | 5                  |
| 1892.....         | 246                                   | 3.33      | 130    | 116      | 122        | 124      | 8                       | 22           | 27              | 96                  | 83               | 10                 |
| 1893.....         | 257                                   | 3.46      | 139    | 118      | 116        | 141      | 12                      | 17           | 23              | 100                 | 98               | 7                  |
| 1894.....         | 221                                   | 3.09      | 122    | 99       | 93         | 128      | 4                       | 24           | 13              | 82                  | 84               | 14                 |
| 1895.....         | 258                                   | 3.42      | 123    | 135      | 126        | 132      | 14                      | 25           | 22              | 81                  | 105              | 11                 |
| 1891-1895.....    | 1,204                                 | 3.33      | 649    | 555      | 565        | 639      | 46                      | 107          | 104             | 452                 | 448              | 47                 |
| 1896.....         | 299                                   | 3.98      | 152    | 147      | 136        | 163      | 10                      | 24           | 38              | 139                 | 79               | 9                  |
| 1897.....         | 328                                   | 4.61      | 179    | 149      | 151        | 177      | 7                       | 26           | 30              | 178                 | 78               | 9                  |
| 1898.....         | 327                                   | 4.73      | 176    | 151      | 131        | 196      | 5                       | 26           | 26              | 157                 | 100              | 13                 |
| 1899.....         | 267                                   | 3.58      | 143    | 124      | 117        | 150      | 8                       | 16           | 20              | 143                 | 77               | 3                  |
| 1900.....         | 290                                   | 3.20      | 161    | 129      | 126        | 164      | 3                       | 26           | 34              | 151                 | 69               | 7                  |
| 1896-1900.....    | 1,511                                 | 4.00      | 811    | 700      | 661        | 850      | 33                      | 118          | 148             | 768                 | 403              | 41                 |
| Total, 35 years.. | 6,460                                 | 3.40      | 3,490  | 2,970    | 3,250      | 3,210    | 178                     | 453          | 522             | 2,423               | 2,678            | 206                |

\* Exclusive of Providence city.

## BRONCHITIS.

The number of decedents in 1900, whose deaths were reported as having been caused by bronchitis, was 295. This is 54 more than in 1899.

This number represents 3.34 per cent. of *all causes*, and a proportion of .69 to every one thousand of the *population*.

Of the 295 decedents, 143 were males, and 152 were females; or at the rate of 94 males to each 100 females.

In relation to parentage, 116 were of native, and 179 of foreign parentage.

In regard to age, 183 of the decedents were under 5 years of age, 11 were between 5 and 20 years, 5 between 20 and 40 years, 19 between 40 and 60 years; and of the remaining 77 decedents, above 60 years of age, there were 36 deaths from chronic bronchitis.

During the first four months of the year the decedents from bronchitis numbered 160, during the last four months the number was 75.

The very large increase in the proportionate mortality from bronchitis, during the last twenty years, will scarcely fail to be noticed in Table LXVI.

The following Table will show various facts in relation to the mortality from bronchitis, for thirty-five years:

TABLE LXVI.

*Mortality in the State from Bronchitis, thirty-five years, 1866 to 1900, inclusive.*

| YEARS.            | Number of Deaths | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|-------------------|------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                   |                  |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 1866-1870.....    | 99               | .64       | 43     | 56       | 47         | 52       | 1                       | 4            | 7               | 29                  | 56               | 2                  |
| 1871.....         | 24               | .78       | 10     | 14       | 11         | 13       | .....                   | 1            | 1               | 5                   | 17               | .....              |
| 1872.....         | 25               | .65       | 10     | 15       | 11         | 14       | 1                       | 1            | 1               | 6                   | 16               | .....              |
| 1873.....         | 27               | .64       | 12     | 15       | 11         | 16       | .....                   | .....        | 1               | 7                   | 18               | 1                  |
| 1874.....         | 39               | .96       | 22     | 17       | 12         | 27       | .....                   | .....        | .....           | 6                   | 32               | 1                  |
| 1875.....         | 57               | 1.39      | 32     | 25       | 29         | 28       | .....                   | .....        | 1               | 21                  | 33               | 2                  |
| 1871-1875.....    | 172              | .84       | 86     | 86       | 74         | 98       | 1                       | 2            | 4               | 45                  | 116              | 4                  |
| 1876.....         | 57               | 1.46      | 23     | 34       | 26         | 31       | .....                   | 2            | .....           | 7                   | 46               | 2                  |
| 1877.....         | 69               | 1.62      | 32     | 37       | 35         | 34       | 1                       | 1            | 1               | 22                  | 44               | .....              |
| 1878.....         | 80               | 1.89      | 30     | 50       | 37         | 43       | 1                       | 2            | 6               | 22                  | 48               | 1                  |
| 1879.....         | 62               | 1.47      | 31     | 31       | 31         | 31       | 1                       | 1            | 5               | 21                  | 34               | .....              |
| 1880.....         | 91               | 1.86      | 49     | 42       | 44         | 47       | 1                       | 6            | 6               | 21                  | 56               | 1                  |
| 1876-1880.....    | 359              | 1.61      | 165    | 194      | 173        | 186      | 4                       | 12           | 18              | 93                  | 228              | 4                  |
| 1881.....         | 84               | .67       | 48     | 36       | 39         | 45       | 1                       | 1            | 2               | 25                  | 53               | 2                  |
| 1882.....         | 100              | 1.27      | 39     | 61       | 47         | 53       | 3                       | 2            | 6               | 25                  | 60               | 4                  |
| 1883.....         | 111              | 2.10      | 56     | 55       | 51         | 60       | 5                       | 2            | 3               | 42                  | 57               | 2                  |
| 1884.....         | 118              | 2.29      | 58     | 60       | 40         | 78       | 6                       | .....        | 8               | 42                  | 62               | .....              |
| 1885.....         | 168              | 3.08      | 82     | 86       | 91         | 77       | 5                       | 3            | 13              | 71                  | 76               | .....              |
| 1881-1885.....    | 581              | 2.24      | 283    | 298      | 268        | 313      | 20                      | 8            | 32              | 205                 | 308              | 8                  |
| 1886.....         | 174              | 2.96      | 75     | 99       | 81         | 93       | 3                       | 4            | 9               | 74                  | 83               | 1                  |
| 1887.....         | 176              | 2.77      | 90     | 86       | 60         | 116      | 3                       | 6            | 19              | 63                  | 84               | 1                  |
| 1888.....         | 228              | 3.45      | 105    | 123      | 79         | 149      | 3                       | 4            | 17              | 110                 | 88               | 6                  |
| 1889.....         | 260              | 4.20      | 128    | 132      | 90         | 170      | 4                       | 8            | 18              | 109                 | 110              | 11                 |
| 1890.....         | 275              | 4.01      | 110    | 135      | 116        | 159      | 5                       | 4            | 15              | 107                 | 138              | 6                  |
| 1886-1890.....    | 1,113            | 3.48      | 538    | 575      | 426        | 687      | 18                      | 26           | 78              | 463                 | 503              | 25                 |
| 1891.....         | 247              | 3.74      | 108    | 139      | 95         | 152      | 13                      | 15           | 21              | 85                  | 111              | 2                  |
| 1892.....         | 308              | 4.16      | 147    | 161      | 117        | 191      | 5                       | 15           | 21              | 130                 | 130              | 7                  |
| 1893.....         | 315              | 4.24      | 164    | 151      | 105        | 210      | 4                       | 9            | 21              | 150                 | 126              | 5                  |
| 1891.....         | 254              | 3.55      | 112    | 142      | 82         | 172      | 4                       | 15           | 11              | 98                  | 120              | 6                  |
| 1895.....         | 274              | 3.64      | 133    | 141      | 92         | 182      | 8                       | 15           | 19              | 103                 | 122              | 7                  |
| 1891-1895.....    | 1,398            | 3.87      | 664    | 734      | 491        | 907      | 34                      | 69           | 93              | 566                 | 609              | 27                 |
| 1896.....         | 276              | 3.68      | 143    | 133      | 101        | 175      | 8                       | 19           | 9               | 112                 | 116              | 12                 |
| 1897.....         | 226              | 3.18      | 123    | 103      | 83         | 143      | 6                       | 19           | 13              | 88                  | 94               | 6                  |
| 1898.....         | 236              | 3.42      | 109    | 127      | 76         | 160      | 6                       | 14           | 11              | 87                  | 103              | 15                 |
| 1899.....         | 241              | 3.23      | 118    | 123      | 73         | 168      | 7                       | 16           | 10              | 96                  | 103              | 9                  |
| 1900.....         | 295              | 3.34      | 143    | 152      | 116        | 179      | 6                       | 30           | 22              | 101                 | 127              | 9                  |
| 1896-1900.....    | 1,274            | 3.37      | 636    | 638      | 419        | 855      | 33                      | 98           | 65              | 484                 | 543              | 51                 |
| Total, 35 years.. | 4,996            | 2.63      | 2,415  | 2,581    | 1,928      | 3,068    | 111                     | 219          | 297             | 1,885               | 2,363            | 121                |

\* Exclusive of Providence city.

## CANCER.

There were 292 decedents, in 1900, whose deaths were caused by cancer, according to the returns. The term cancer includes all the various kinds, and in whatever place located.

This number represents 3.31 per cent. of *all causes*, and a proportion of .68 to every one thousand of the *population*.

The varieties of cancer, as reported, may be found in Tables VII and VIII, on pages 22, 23, 35, 36, and 37. They are classed in Table IX as follows: cancer of the buccal cavity, 11; cancer of the stomach and liver, 121; cancer of the peritonæum, intestines, and rectum, 27; cancer of the female genital organs, 52; cancer of the breast, 41; cancer of the skin, 21; cancer of other organs and organs not specified, 19.

In 1900, the deaths from cancer, in the several divisions of the year, were as follows:

|                     |     |                      |     |
|---------------------|-----|----------------------|-----|
| First Quarter.....  | 66  | Third Quarter .....  | 80  |
| Second Quarter..... | 68  | Fourth Quarter. .... | 78  |
| <hr/>               |     |                      |     |
| First Half.....     | 134 | Second half.....     | 158 |
| <hr/>               |     |                      |     |
| Whole year.....292. |     |                      |     |

*Sex*.—Of the 292 decedents from cancer, 96 were males, and 196 were females; or 33 males and 67 females in every 100.

*Parentage*.—There were 144 of native parentage, and 148 of foreign.

The following Table will show the facts of mortality from cancer, in relation to sex, parentage, and locality, for thirty-five years:



## TABLE LXVII.

*Mortality in the State from Cancer, 1866 to 1900, inclusive.*

| YEARS.             | Number of Deaths. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|--------------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                    |                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 5 years, 1866-1870 | 328               | 2.13      | 98     | 230      | 269        | 59       | 19                      | 33           | 38              | 87                  | 131              | 20                 |
| 1871.....          | 66                | 2.13      | 25     | 41       | 47         | 19       | .....                   | 7            | 5               | 25                  | 25               | 4                  |
| 1872.....          | 95                | 2.46      | 26     | 69       | 66         | 29       | 4                       | 7            | 9               | 21                  | 50               | 4                  |
| 1873.....          | 106               | 2.53      | 45     | 61       | 76         | 30       | 4                       | 6            | 12              | 32                  | 44               | 8                  |
| 1874.....          | 87                | 2.13      | 23     | 64       | 67         | 20       | 4                       | 6            | 12              | 24                  | 38               | 3                  |
| 1875.....          | 95                | 2.31      | 24     | 71       | 62         | 33       | 3                       | 6            | 7               | 25                  | 49               | 5                  |
| 1871-1875.....     | 449               | 2.18      | 143    | 306      | 318        | 131      | 15                      | 32           | 45              | 127                 | 206              | 24                 |
| 1876.....          | 106               | 2.72      | 27     | 79       | 72         | 34       | 5                       | 6            | 8               | 27                  | 53               | 7                  |
| 1877.....          | 135               | 3.17      | 29     | 106      | 87         | 48       | 3                       | 7            | 9               | 37                  | 66               | 13                 |
| 1878.....          | 119               | 2.82      | 38     | 81       | 79         | 40       | 5                       | 11           | 8               | 37                  | 48               | 10                 |
| 1879.....          | 125               | 2.96      | 39     | 86       | 70         | 55       | 9                       | 6            | 9               | 28                  | 66               | 7                  |
| 1880.....          | 125               | 2.72      | 45     | 80       | 73         | 52       | 5                       | 10           | 12              | 26                  | 68               | 4                  |
| 1876-1880.....     | 610               | 2.73      | 178    | 432      | 381        | 229      | 27                      | 40           | 46              | 175                 | 301              | 41                 |
| 1881.....          | 145               | 2.90      | 40     | 105      | 90         | 55       | 8                       | 10           | 12              | 42                  | 65               | 8                  |
| 1882.....          | 132               | 2.75      | 40     | 92       | 82         | 50       | 5                       | 15           | 9               | 43                  | 52               | 8                  |
| 1883.....          | 169               | 3.20      | 51     | 118      | 105        | 64       | 3                       | 17           | 12              | 49                  | 86               | 2                  |
| 1884.....          | 156               | 3.05      | 39     | 117      | 88         | 68       | 2                       | 18           | 21              | 41                  | 70               | 4                  |
| 1885.....          | 193               | 3.59      | 52     | 141      | 114        | 79       | 8                       | 9            | 8               | 67                  | 88               | 13                 |
| 1881-1885.....     | 795               | 3.07      | 222    | 573      | 479        | 316      | 26                      | 69           | 62              | 242                 | 361              | 35                 |
| 1886.....          | 162               | 2.77      | 42     | 120      | 75         | 87       | 6                       | 11           | 9               | 37                  | 87               | 12                 |
| 1887.....          | 159               | 2.50      | 49     | 110      | 96         | 63       | 8                       | 5            | 10              | 49                  | 80               | 7                  |
| 1888.....          | 193               | 2.93      | 67     | 126      | 128        | 65       | 9                       | 10           | 12              | 57                  | 88               | 17                 |
| 1889.....          | 189               | 3.03      | 65     | 124      | 104        | 85       | 4                       | 10           | 13              | 57                  | 82               | 23                 |
| 1890.....          | 165               | 2.41      | 56     | 109      | 92         | 73       | 14                      | 10           | 13              | 46                  | 74               | 8                  |
| 1886-1890.....     | 868               | 2.71      | 279    | 589      | 495        | 373      | 41                      | 46           | 57              | 246                 | 411              | 67                 |
| 1891.....          | 177               | 2.67      | 48     | 129      | 104        | 73       | 8                       | 11           | 15              | 46                  | 83               | 14                 |
| 1892.....          | 181               | 2.45      | 53     | 128      | 103        | 78       | 7                       | 16           | 16              | 57                  | 75               | 10                 |
| 1893.....          | 205               | 2.75      | 54     | 151      | 121        | 81       | 6                       | 15           | 17              | 56                  | 92               | 19                 |
| 1894.....          | 214               | 2.99      | 67     | 147      | 121        | 93       | 13                      | 11           | 23              | 75                  | 73               | 19                 |
| 1895.....          | 231               | 3.11      | 74     | 160      | 106        | 128      | 13                      | 12           | 17              | 79                  | 96               | 17                 |
| 1891-1895.....     | 1,011             | 2.79      | 296    | 715      | 558        | 453      | 47                      | 65           | 88              | 313                 | 419              | 79                 |
| 1896.....          | 226               | 3.01      | 61     | 165      | 117        | 109      | 6                       | 21           | 12              | 81                  | 89               | 17                 |
| 1897.....          | 254               | 3.57      | 77     | 177      | 128        | 126      | 12                      | 14           | 22              | 86                  | 103              | 17                 |
| 1898.....          | 279               | 4.04      | 83     | 196      | 159        | 120      | 18                      | 18           | 24              | 75                  | 119              | 25                 |
| 1899.....          | 292               | 3.92      | 95     | 197      | 135        | 157      | 11                      | 16           | 29              | 83                  | 132              | 21                 |
| 1900.....          | 292               | 3.31      | 96     | 196      | 144        | 148      | 18                      | 19           | 15              | 87                  | 122              | 21                 |
| 1896-1900.....     | 1,343             | 3.55      | 412    | 931      | 683        | 660      | 65                      | 88           | 102             | 412                 | 575              | 101                |
| Total, 35 years..  | 5,404             | 2.84      | 1,628  | 3,776    | 3,183      | 2,221    | 240                     | 373          | 438             | 1,582               | 2,404            | 367                |

\* Exclusive of Providence city.

## CHILD-BIRTH.

Under the head of "Child-birth" are included, in this connection, whatever causes of death that may have occurred as the direct result of child-birth, or parturition.

The number reported in 1900 was 99, 27 of which were from the immediate effects of child-birth, including hemorrhage, rupture of uterus, etc., 8 from peritonitis, 23 from puerperal nephritis and convulsions, and 41 from puerperal fever or septicemia.

Of the whole number, 27 were of native, and 72 of foreign parentage.

This number represents 1.12 per cent. of *all causes*, and a proportion of .23 to every one thousand of the *population*.

There were 44 more deaths from "child-birth" in 1900 than in 1899.

The following Table will present the various relations in regard to the mortality from child-birth, for thirty-five years, 1866-1900.

## TABLE LXVIII.

*Mortality in the State from Child-Birth, with the Percentage of the Whole Number of Deaths, Parentage, and Locality, for thirty-five years, from 1866 to 1900, inclusive.*

| YEARS.                | Number of Deaths from Child-Birth. | Per cent. | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|-----------------------|------------------------------------|-----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                       |                                    |           | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 1866-1870 .....       | 155                                | 1.01      | 62         | 93       | 7                       | 6            | 16              | 59                  | 56               | 11                 |
| 1871-1875 .....       | 245                                | 1.19      | 111        | 134      | 7                       | 21           | 12              | 76                  | 110              | 19                 |
| 1876 .....            | 48                                 | 1.24      | 21         | 27       | 3                       | .....        | 1               | 18                  | 23               | 3                  |
| 1877 .....            | 46                                 | 1.09      | 18         | 28       | 4                       | 3            | 5               | 17                  | 17               | .....              |
| 1878 .....            | 43                                 | 1.01      | 23         | 20       | 2                       | 4            | 3               | 9                   | 21               | 4                  |
| 1879 .....            | 43                                 | 1.02      | 21         | 22       | 1                       | 7            | 2               | 6                   | 23               | 4                  |
| 1880 .....            | 51                                 | 1.11      | 23         | 28       | 4                       | 4            | 3               | 10                  | 27               | 3                  |
| 1876-1880 .....       | 231                                | 1.04      | 106        | 125      | 14                      | 18           | 14              | 60                  | 111              | 14                 |
| 1881 .....            | 60                                 | 1.28      | 26         | 34       | 1                       | 1            | 3               | 22                  | 29               | 4                  |
| 1882 .....            | 50                                 | 1.03      | 18         | 32       | .....                   | 5            | 1               | 16                  | 27               | 1                  |
| 1883 .....            | 58                                 | 1.10      | 26         | 32       | 1                       | 5            | 9               | 14                  | 27               | 2                  |
| 1884 .....            | 47                                 | .91       | 17         | 30       | .....                   | 3            | 3               | 19                  | 18               | 4                  |
| 1885 .....            | 47                                 | .87       | 21         | 26       | .....                   | 3            | 4               | 15                  | 24               | 1                  |
| 1881-1885 .....       | 262                                | 1.04      | 108        | 154      | 2                       | 17           | 20              | 86                  | 125              | 12                 |
| 1886 .....            | 41                                 | .70       | 17         | 24       | .....                   | 4            | 4               | 15                  | 17               | 1                  |
| 1887 .....            | 53                                 | .71       | 15         | 38       | .....                   | 5            | 4               | 18                  | 26               | .....              |
| 1888 .....            | 51                                 | .77       | 13         | 38       | .....                   | 3            | .....           | 25                  | 20               | 3                  |
| 1889 .....            | 41                                 | .65       | 14         | 27       | 1                       | 5            | 2               | 16                  | 13               | 4                  |
| 1890 .....            | 41                                 | .58       | 12         | 29       | 3                       | 4            | 4               | 10                  | 17               | 3                  |
| 1886-1890 .....       | 274                                | .86       | 92         | 182      | 4                       | 24           | 18              | 99                  | 117              | 12                 |
| 1891 .....            | 32                                 | .35       | 8          | 24       | .....                   | 3            | .....           | 8                   | 19               | 2                  |
| 1892 .....            | 75                                 | 1.01      | 29         | 46       | 1                       | 9            | 3               | 24                  | 29               | 9                  |
| 1893 .....            | 57                                 | .76       | 23         | 34       | .....                   | 5            | 4               | 15                  | 29               | 4                  |
| 1894 .....            | 72                                 | 1.01      | 15         | 57       | .....                   | 8            | 3               | 25                  | 32               | 4                  |
| 1895 .....            | 55                                 | .73       | 16         | 39       | .....                   | 3            | .....           | 18                  | 30               | 4                  |
| 1891-1895 .....       | 291                                | .77       | 91         | 200      | 1                       | 28           | 10              | 90                  | 139              | 23                 |
| 1896 .....            | 50                                 | .67       | 16         | 34       | .....                   | 2            | 1               | 24                  | 17               | 6                  |
| 1897 .....            | 57                                 | .80       | 18         | 39       | 2                       | 8            | .....           | 21                  | 22               | 4                  |
| 1898 .....            | 71                                 | 1.02      | 22         | 49       | 1                       | 6            | 1               | 28                  | 32               | 3                  |
| 1899 .....            | 55                                 | .74       | 11         | 44       | 1                       | 7            | 3               | 15                  | 27               | 2                  |
| 1900 .....            | 99                                 | 1.12      | 27         | 72       | 2                       | 11           | 4               | 31                  | 47               | 4                  |
| 1896-1900 .....       | 332                                | .88       | 94         | 238      | 6                       | 34           | 9               | 119                 | 145              | 19                 |
| Total, 35 years ..... | 1,790                              | .94       | 664        | 1,126    | 41                      | 148          | 99              | 589                 | 803              | 110                |

\* Exclusive of Providence city.

## CHOLERA INFANTUM.

The number of deaths from cholera infantum, according to the returns for 1900, was 557.

This number represents 6.54 per cent. of deaths from *all causes*, and a proportion of 1.30 to every one thousand of the *population*.

Of the 557 decedents, 311 were males, and 246 were females.

Of parentage, 207 were of native, and 350 of foreign parentage; or about 169 of foreign to every 100 of native parentage.

The mortality from cholera infantum, during 1900, was .20 per cent. more than during the year 1899.

As may be seen on the following page, the number of decedents from cholera infantum, during the thirty-five years from 1866 to 1900, inclusive, was 12,095.

The proportion to total mortality for the period of thirty-five years was 6.3 per cent. For 1897 the proportion was 5.9 per cent.; for 1898, 6.7 per cent.; for 1899, 6.3 per cent.; and for 1900, 6.5.

There were 111 males to every 100 females among the decedents during the thirty-five years; and 163 decedents of foreign parentage to every 100 of native, during the same period.

The following Table shows the whole number of reported deaths from cholera infantum; the sex and parentage of the decedents; and the number in each of the larger divisions of the State, in each of the last thirty-five years:

TABLE LXIX.

*Mortality in the State from Cholera Infantum, 1866 to 1900, inclusive.*

| YEARS.             | Number of Deaths. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|--------------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                    |                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County*. | Providence City. | Washington County. |
| 5 years, 1866-1870 | 745               | 4.84      | 403    | 342      | 352        | 393      | 39                      | 44           | 46              | 245                 | 324              | 47                 |
| 1871.....          | 172               | 4.82      | 85     | 87       | 82         | 90       | 14                      | 12           | 12              | 59                  | 62               | 13                 |
| 1872.....          | 391               | 8.71      | 195    | 196      | 167        | 224      | 16                      | 16           | 21              | 157                 | 151              | 30                 |
| 1873.....          | 285               | 6.19      | 148    | 137      | 165        | 120      | 17                      | 14           | 16              | 120                 | 99               | 19                 |
| 1874.....          | 265               | 5.86      | 140    | 125      | 115        | 150      | 4                       | 12           | 5               | 84                  | 134              | 26                 |
| 1875.....          | 318               | 6.97      | 156    | 162      | 155        | 163      | 20                      | 16           | 20              | 108                 | 136              | 18                 |
| 1871-1875.....     | 1,431             | 6.97      | 724    | 707      | 684        | 747      | 71                      | 70           | 74              | 528                 | 582              | 106                |
| 1876.....          | 250               | 5.75      | 131    | 119      | 105        | 145      | 5                       | 12           | 29              | 68                  | 124              | 12                 |
| 1877.....          | 259               | 5.52      | 139    | 120      | 96         | 163      | 12                      | 13           | 9               | 96                  | 122              | 7                  |
| 1878.....          | 168               | 3.58      | 96     | 72       | 73         | 95       | 7                       | 14           | 7               | 64                  | 71               | 5                  |
| 1879.....          | 161               | 3.43      | 88     | 73       | 71         | 90       | 8                       | 16           | 21              | 51                  | 59               | 6                  |
| 1880.....          | 247               | 5.12      | 123    | 124      | 109        | 138      | 13                      | 11           | 10              | 93                  | 100              | 20                 |
| 1876-1880.....     | 1,085             | 4.86      | 577    | 508      | 454        | 631      | 45                      | 66           | 76              | 372                 | 476              | 50                 |
| 1881.....          | 240               | 4.54      | 130    | 110      | 102        | 138      | 10                      | 22           | 14              | 75                  | 102              | 17                 |
| 1882.....          | 325               | 6.10      | 173    | 152      | 133        | 192      | 20                      | 11           | 19              | 132                 | 130              | 13                 |
| 1883.....          | 242               | 4.37      | 124    | 118      | 104        | 138      | 12                      | 7            | 22              | 88                  | 108              | 5                  |
| 1884.....          | 325               | 6.00      | 177    | 148      | 139        | 186      | 10                      | 12           | 26              | 114                 | 144              | 19                 |
| 1885.....          | 279               | 4.92      | 150    | 129      | 128        | 151      | 5                       | 23           | 16              | 133                 | 86               | 16                 |
| 1881-1885.....     | 1,411             | 5.45      | 754    | 657      | 606        | 805      | 57                      | 75           | 97              | 542                 | 570              | 70                 |
| 1886.....          | 377               | 6.14      | 179    | 198      | 143        | 234      | 4                       | 29           | 15              | 194                 | 120              | 15                 |
| 1887.....          | 355               | 5.36      | 200    | 155      | 145        | 210      | 16                      | 16           | 35              | 160                 | 119              | 9                  |
| 1888.....          | 467               | 6.78      | 239    | 228      | 184        | 283      | 18                      | 35           | 28              | 219                 | 149              | 18                 |
| 1889.....          | 396               | 6.01      | 209    | 187      | 132        | 264      | 18                      | 32           | 20              | 199                 | 116              | 11                 |
| 1890.....          | 582               | 8.01      | 282    | 300      | 202        | 380      | 19                      | 57           | 33              | 245                 | 209              | 19                 |
| 1886-1890.....     | 2,177             | 6.81      | 1,109  | 1,068    | 806        | 1,371    | 75                      | 169          | 131             | 1,017               | 713              | 72                 |
| 1891.....          | 546               | 8.25      | 298    | 248      | 170        | 376      | 21                      | 68           | 50              | 255                 | 137              | 16                 |
| 1892.....          | 638               | 8.56      | 336    | 297      | 210        | 423      | 18                      | 77           | 43              | 281                 | 201              | 13                 |
| 1893.....          | 603               | 8.10      | 321    | 279      | 186        | 417      | 11                      | 82           | 44              | 267                 | 183              | 16                 |
| 1894.....          | 496               | 6.93      | 243    | 253      | 162        | 334      | 13                      | 76           | 25              | 225                 | 130              | 27                 |
| 1895.....          | 500               | 6.64      | 268    | 232      | 155        | 345      | 14                      | 57           | 19              | 241                 | 150              | 19                 |
| 1891-1895.....     | 2,778             | 7.55      | 1,469  | 1,309    | 883        | 1,895    | 77                      | 360          | 181             | 1,209               | 801              | 90                 |
| 1896.....          | 545               | 7.26      | 313    | 232      | 165        | 380      | 5                       | 62           | 38              | 277                 | 148              | 15                 |
| 1897.....          | 425               | 5.98      | 204    | 221      | 160        | 265      | 12                      | 63           | 30              | 179                 | 120              | 21                 |
| 1898.....          | 468               | 6.78      | 240    | 228      | 163        | 305      | 14                      | 62           | 28              | 211                 | 144              | 9                  |
| 1899.....          | 473               | 6.34      | 265    | 208      | 127        | 346      | 32                      | 48           | 23              | 220                 | 139              | 11                 |
| 1900.....          | 557               | 6.54      | 311    | 246      | 207        | 350      | 19                      | 60           | 47              | 281                 | 125              | 25                 |
| 1896-1900.....     | 2,468             | 6.53      | 1,333  | 1,135    | 822        | 1,646    | 82                      | 295          | 166             | 1,168               | 676              | 81                 |
| Total, 35 years..  | 12,095            | 6.36      | 6,369  | 5,726    | 4,607      | 7,488    | 446                     | 1,079        | 771             | 5,141               | 4,142            | 516                |

\* Exclusive of Providence city.

## CONSUMPTION.

The decedents from consumption, during 1900, numbered 987. The number is 15 more than in the preceding year.

This number represents 11.82 per cent. of *all causes*, and a proportion of 2.33 to every one thousand of the *population*.

*Sex*.—Of these 987 decedents, 514 were males, and 473 were females; being about 92 female decedents to every 100 male decedents.

For the period of twenty years (1866–1885) there were nearly 124 females to every 100 male decedents from consumption, and a very considerable excess every year since, excepting in 1891, 1893, 1897, 1898, and 1900.

*Parentage*.—There were 324 decedents of native parentage, and 663 of foreign; a proportion of 205 of foreign parentage to every 100 of native.

*Season*.—The largest number of deaths, 104, occurred in April; the next largest, 97, in January; the smallest, 65, in November.

The number in each quarter of the year was as follows:

|                     |     |                     |     |
|---------------------|-----|---------------------|-----|
| First Quarter.....  | 264 | Third Quarter.....  | 237 |
| Second Quarter..... | 258 | Fourth Quarter..... | 228 |
| <hr/>               |     |                     |     |
| First half.....     | 522 | Second half.....    | 465 |
| <hr/>               |     |                     |     |
| Whole year..... 987 |     |                     |     |

*Ages*.—During 1900, of the 987 decedents from consumption, 261, or more than one-quarter, were between the ages of 20 and 30; and 192, or more than one-fifth, were between the ages of 30 and 40.

In order to show more concisely the relation of age to mortality from consumption, during 1900, the following age periods and numbers are presented:

|                              |     |
|------------------------------|-----|
| Under 10 years of age.....   | 165 |
| Between 10 and 20 years..... | 78  |
| Between 20 and 30 years..... | 261 |
| Between 30 and 40 years..... | 192 |
| Between 40 and 50 years..... | 137 |
| Between 50 and 70 years..... | 142 |
| Over 70 years.....           | 16  |
| Not stated.....              | 1   |
| <hr/>                        |     |
| Total.....                   | 987 |



The following Table shows the total deaths from all reported *known causes*, with the *number* and *percentage* of deaths from consumption of the same, in each of the large divisions of the State, and in the whole State, *in each of the last eighteen years*, and also the aggregate for a period of forty years, from 1861 to 1900, inclusive :

CONSUMPTION.

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STATISTICS BY COUNTIES.

NUMBER AND PERCENTAGE,

FORTY YEARS.

TABLE LXX.—CONSUMPTION.—Number, Locality, and Percentage,

| COUNTIES.                     | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | 1898. | 1899. | 1900. | Total<br>40 years,<br>1861-1890. |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|
| <b>BRISTOL COUNTY.</b>        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |
| Total deaths, stated causes.  | 197   | 199   | 185   | 221   | 217   | 251   | 208   | 253   | 239   | 232   | 227   | 200   | 256   | 220   | 230   | 212   | 249   | 296   | 7,578                            |
| Consumption.....              | 19    | 21    | 12    | 23    | 20    | 28    | 20    | 31    | 17    | 29    | 18    | 10    | 29    | 27    | 13    | 29    | 24    | 30    | 872                              |
| Percentage.....               | 9.64  | 10.50 | 6.48  | 10.35 | 9.22  | 11.15 | 9.62  | 11.85 | 7.11  | 12.50 | 7.93  | 5.00  | 11.33 | 12.27 | 5.65  | 13.68 | 9.64  | 10.14 | 11.51                            |
| <b>KENT COUNTY.</b>           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |
| Total deaths, stated causes.  | 283   | 268   | 355   | 385   | 343   | 408   | 454   | 470   | 500   | 598   | 572   | 574   | 521   | 578   | 535   | 513   | 572   | 706   | 13,820                           |
| Consumption.....              | 39    | 37    | 45    | 43    | 34    | 55    | 45    | 38    | 47    | 51    | 55    | 46    | 54    | 59    | 55    | 54    | 70    | 46    | 1,837                            |
| Percentage.....               | 13.78 | 13.43 | 12.70 | 11.20 | 9.91  | 13.44 | 9.84  | 8.08  | 9.40  | 8.53  | 9.62  | 8.01  | 10.36 | 10.21 | 10.28 | 10.53 | 12.24 | 6.52  | 13.29                            |
| <b>NEWPORT COUNTY.</b>        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |
| Total deaths, stated causes.  | 401   | 403   | 408   | 433   | 435   | 458   | 440   | 470   | 597   | 590   | 506   | 516   | 487   | 532   | 507   | 491   | 561   | 608   | 15,438                           |
| Consumption.....              | 55    | 43    | 47    | 57    | 41    | 32    | 37    | 51    | 51    | 45    | 35    | 46    | 59    | 66    | 55    | 60    | 50    | 52    | 1,819                            |
| Percentage.....               | 13.72 | 10.67 | 11.52 | 13.16 | 9.19  | 7.00  | 8.41  | 10.85 | 8.51  | 7.63  | 6.92  | 8.91  | 12.11 | 12.41 | 10.85 | 12.32 | 8.91  | 8.55  | 8.49                             |
| <b>PROVIDENCE COUNTY.*</b>    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |
| Total deaths, stated causes.. | 1,656 | 1,723 | 1,918 | 2,087 | 2,345 | 2,465 | 2,286 | 2,374 | 2,344 | 2,632 | 2,634 | 2,536 | 2,796 | 2,826 | 2,646 | 2,381 | 2,543 | 3,080 | 65,664                           |
| Consumption.....              | 257   | 248   | 273   | 276   | 246   | 273   | 257   | 305   | 236   | 265   | 259   | 242   | 271   | 292   | 283   | 307   | 337   | 333   | 8,949                            |
| Percentage.....               | 15.52 | 14.13 | 14.20 | 13.05 | 10.49 | 11.07 | 11.24 | 12.84 | 10.00 | 10.07 | 9.83  | 9.54  | 9.33  | 10.33 | 10.70 | 12.89 | 13.25 | 10.81 | 13.63                            |

\* Exclusive of Providence city.

TABLE LXX.—CONSUMPTION.—*Number, Locality, and Percentage.*—Concluded.

| COUNTIES.                    | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | 1898. | 1899. | 1900. | Total<br>40 years,<br>1861-1900. |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|
| <b>PROVIDENCE CITY.</b>      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |
| Total deaths, stated causes. | 2,351 | 2,227 | 2,157 | 2,341 | 2,630 | 2,644 | 2,495 | 2,859 | 2,615 | 2,950 | 3,127 | 2,878 | 3,055 | 2,938 | 2,796 | 2,921 | 3,153 | 3,665 | 81,560                           |
| Consumption.....             | 364   | 344   | 348   | 368   | 323   | 362   | 315   | 394   | 347   | 342   | 328   | 325   | 394   | 367   | 341   | 405   | 452   | 486   | 11,877                           |
| Percentage.....              | 15.48 | 15.43 | 16.10 | 15.65 | 12.23 | 13.66 | 12.55 | 13.69 | 13.19 | 11.59 | 10.49 | 11.29 | 12.90 | 12.49 | 12.20 | 13.86 | 14.34 | 13.26 | 14.56                            |
| <b>WASHINGTON COUNTY.</b>    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |
| Total deaths, stated causes. | 208   | 279   | 307   | 331   | 351   | 368   | 337   | 316   | 307   | 366   | 306   | 401   | 368   | 381   | 371   | 367   | 358   | 435   | 11,065                           |
| Consumption.....             | 32    | 46    | 56    | 59    | 46    | 50    | 53    | 33    | 42    | 27    | 27    | 36    | 32    | 35    | 30    | 31    | 39    | 40    | 1,635                            |
| Percentage.....              | 15.40 | 16.28 | 17.43 | 17.52 | 13.10 | 13.58 | 15.68 | 10.38 | 13.61 | 7.38  | 8.82  | 8.98  | 8.70  | 9.19  | 8.09  | 8.45  | 10.90 | 9.20  | 14.78                            |
| <b>WHOLE STATE.</b>          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |
| Total deaths, stated causes. | 5,096 | 5,099 | 5,330 | 5,798 | 6,321 | 6,594 | 6,220 | 6,891 | 6,586 | 7,368 | 7,372 | 7,105 | 7,483 | 7,475 | 7,085 | 6,825 | 7,436 | 8,790 | 195,125                          |
| Consumption.....             | 766   | 739   | 781   | 826   | 710   | 800   | 727   | 852   | 740   | 759   | 722   | 705   | 839   | 846   | 777   | 886   | 972   | 987   | 26,989                           |
| Percentage.....              | 15.03 | 14.34 | 14.42 | 14.12 | 11.19 | 12.13 | 11.61 | 12.29 | 11.18 | 10.30 | 9.79  | 9.92  | 11.21 | 11.32 | 10.97 | 12.87 | 13.07 | 11.23 | 13.83                            |

TABLE LXXI.

*Mortality in the State from Consumption, with the Percentage of the Whole Number of Deaths, from all causes, and the Sex, Parentage, and Locality, in the Aggregate of Different Periods, 1866-1900.*

| YEARS.            | Total Deaths from Consumption. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|-------------------|--------------------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                   |                                |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 1866-1870.....    | 2,718                          | 17.66     | 1,244  | 1,474    | 1,567      | 1,151    | 122                     | 231          | 219             | 891                 | 1,051            | 204                |
| 1871-1875.....    | 2,883                          | 14.03     | 1,267  | 1,616    | 1,504      | 1,379    | 94                      | 213          | 163             | 953                 | 1,234            | 226                |
| 1876-1880.....    | 3,271                          | 14.66     | 1,435  | 1,836    | 1,473      | 1,798    | 104                     | 194          | 188             | 1,048               | 1,498            | 239                |
| 1881-1885.....    | 3,729                          | 14.40     | 1,692  | 2,037    | 1,427      | 2,302    | 113                     | 208          | 242             | 1,222               | 1,751            | 193                |
| 1886.....         | 826                            | 14.12     | 382    | 444      | 308        | 518      | 23                      | 43           | 57              | 276                 | 368              | 59                 |
| 1887.....         | 710                            | 11.19     | 312    | 398      | 266        | 444      | 20                      | 34           | 41              | 246                 | 323              | 46                 |
| 1888.....         | 800                            | 12.13     | 391    | 409      | 284        | 516      | 28                      | 55           | 32              | 273                 | 362              | 50                 |
| 1889.....         | 727                            | 11.61     | 356    | 371      | 239        | 488      | 20                      | 45           | 37              | 267                 | 315              | 53                 |
| 1890.....         | 852                            | 12.29     | 422    | 430      | 280        | 572      | 31                      | 38           | 51              | 305                 | 394              | 33                 |
| 1886-1890.....    | 3,915                          | 12.24     | 1,863  | 2,052    | 1,377      | 2,538    | 122                     | 215          | 218             | 1,357               | 1,762            | 241                |
| 1891.....         | 740                            | 11.18     | 380    | 360      | 218        | 492      | 17                      | 47           | 51              | 236                 | 347              | 42                 |
| 1892.....         | 759                            | 10.26     | 360    | 399      | 219        | 510      | 29                      | 51           | 45              | 265                 | 312              | 27                 |
| 1893.....         | 722                            | 9.72      | 364    | 358      | 230        | 492      | 18                      | 55           | 35              | 259                 | 328              | 27                 |
| 1894.....         | 705                            | 9.85      | 337    | 368      | 214        | 491      | 10                      | 46           | 46              | 212                 | 325              | 36                 |
| 1895.....         | 839                            | 11.13     | 392    | 447      | 284        | 555      | 29                      | 54           | 59              | 271                 | 394              | 32                 |
| 1891-1895.....    | 3,765                          | 10.41     | 1,833  | 1,932    | 1,225      | 2,540    | 103                     | 253          | 236             | 1,273               | 1,736            | 174                |
| 1896.....         | 816                            | 11.27     | 409    | 437      | 273        | 573      | 27                      | 59           | 66              | 292                 | 367              | 35                 |
| 1897.....         | 777                            | 10.93     | 395    | 382      | 269        | 508      | 13                      | 55           | 55              | 283                 | 341              | 30                 |
| 1898.....         | 886                            | 12.83     | 460    | 426      | 272        | 614      | 29                      | 54           | 60              | 307                 | 405              | 31                 |
| 1899.....         | 972                            | 13.03     | 478    | 494      | 316        | 656      | 21                      | 70           | 50              | 337                 | 452              | 39                 |
| 1900.....         | 987                            | 11.19     | 514    | 473      | 324        | 663      | 30                      | 46           | 52              | 333                 | 486              | 40                 |
| 1896-1900.....    | 4,468                          | 11.82     | 2,256  | 2,212    | 1,451      | 3,011    | 123                     | 281          | 283             | 1,552               | 2,051            | 175                |
| Total, 35 years.. | 24,749                         | 13.02     | 11,590 | 13,159   | 10,927     | 11,722   | 781                     | 1,598        | 1,549           | 8,296               | 11,083           | 1,442              |

\* Exclusive of Providence city.

CONSUMPTION. *Proportion of Deaths to Population.*

The proportion of deaths from consumption to the *population* in the different localities of the State, during the last fifteen years, may be seen in the following summaries :

*For five years, 1886 to 1890, inclusive.*

|                         | Persons,<br>One Death to every | In every 1,000<br>of Population. |
|-------------------------|--------------------------------|----------------------------------|
| Bristol County.....     | 494 .....                      | or.....2.09                      |
| Kent County.....        | 569 .....                      | or.....1.85                      |
| Newport County.....     | 708.....                       | or.....1.48                      |
| Providence County*..... | 598.....                       | or.....1.91                      |
| Providence City.....    | 356.....                       | or.....2.82                      |
| Washington County.....  | 497.....                       | or.....2.10                      |
| Whole State.....        | 420.....                       | or.....2.40                      |

*For five years, 1891 to 1895, inclusive.*

|                         | Persons,<br>One Death to every | In every 1,000<br>of Population. |
|-------------------------|--------------------------------|----------------------------------|
| Bristol County.....     | 671.....                       | or.....1.74                      |
| Kent County.....        | 577.....                       | or.....1.73                      |
| Newport County.....     | 647.....                       | or.....1.58                      |
| Providence County*..... | 537.....                       | or.....1.91                      |
| Providence City.....    | 413.....                       | or.....2.57                      |
| Washington County.....  | 766 .....                      | or.....1.34                      |
| Whole State.....        | 497 .....                      | or.....2.02                      |

*For five years, 1896 to 1900, inclusive.*

|                         | Persons,<br>One Death to every | In every 1,000<br>of Population |
|-------------------------|--------------------------------|---------------------------------|
| Bristol County.....     | 538.....                       | or.....1.86                     |
| Kent County.....        | 564 .....                      | or.....1.77                     |
| Newport County.....     | 562.....                       | or.....1.78                     |
| Providence County*..... | 487.....                       | or.....2.05                     |
| Providence City.....    | 388.....                       | or.....2.58                     |
| Washington County.....  | 716.....                       | or.....1.39                     |
| Whole State .....       | 462.....                       | or.....2.17                     |

\* Exclusive of Providence city.



1898.

|                              | Persons,           | In every 1,000 |
|------------------------------|--------------------|----------------|
|                              | One death to every | of Population. |
| Bristol County.....          | 486.....or.....    | 2.06           |
| Kent County.....             | 613.....or.....    | 1.63           |
| Newport County.....          | 580.....or.....    | 1.89           |
| Providence County Towns..... | 539.....or.....    | 1.85           |
| Central Falls.....           | 602.....or.....    | 1.66           |
| Pawtucket.....               | 508.....or.....    | 1.97           |
| Providence City.....         | 381.....or.....    | 2.62           |
| Woonsocket.....              | 400.....or.....    | 2.50           |
| Washington County.....       | 320.....or.....    | 1.22           |
| Whole State.....             | 468.....or.....    | 2.14           |

1899.

|                              | Persons,           | In every 1,000 |
|------------------------------|--------------------|----------------|
|                              | One death to every | of Population. |
| Bristol County.....          | 595.....or.....    | 1.68           |
| Kent County.....             | 487.....or.....    | 2.05           |
| Newport County.....          | 1,215.....or.....  | 0.82           |
| Newport City.....            | 529.....or.....    | 1.89           |
| Providence County Towns..... | 456.....or.....    | 2.19           |
| Central Falls.....           | 664.....or.....    | 1.50           |
| Pawtucket.....               | 422.....or.....    | 2.37           |
| Providence City.....         | 367.....or.....    | 2.73           |
| Woonsocket.....              | 386.....or.....    | 2.59           |
| Washington County.....       | 681.....or.....    | 1.52           |
| Whole State.....             | 435.....or.....    | 2.30           |

1900.

|                              | Persons,           | In every 1,000 |
|------------------------------|--------------------|----------------|
|                              | One death to every | of Population. |
| Bristol County.....          | 438.....or.....    | 2.28           |
| Kent County.....             | 652.....or.....    | 1.54           |
| Newport County.....          | 1,509.....or.....  | 0.66           |
| Newport City.....            | 490.....or.....    | 2.04           |
| Providence County Towns..... | 414.....or.....    | 2.42           |
| Central Falls.....           | 673.....or.....    | 1.49           |
| Pawtucket.....               | 503.....or.....    | 1.99           |
| Providence City.....         | 361.....or.....    | 2.77           |
| Woonsocket.....              | 434.....or.....    | 2.30           |
| Washington County.....       | 604.....or.....    | 1.66           |
| Whole State.....             | 434.....or.....    | 2.30           |

There was an increase in the mortality from consumption, in 1900, as compared with the preceding year, in numbers, but not in proportion to the population.

### CROUP.

There were 18 decedents from croup, in 1900, as against 11 in 1899.

*Sex.*—Of the 18 decedents from croup, in 1900, there were 9 males and 9 females, a proportion of 100 males to each 100 females.

*Parentage.*—There were 6 decedents of native parentage, and 12 of foreign parentage. The proportions were in the ratio of 200 of foreign to each 100 of native parentage.

*Age.*—There were 16 of the decedents under 5 years of age, and 2 of 5 years and under 10.

### Season.—

|                     |    |                     |   |
|---------------------|----|---------------------|---|
| First Quarter.....  | 11 | Third Quarter.....  | 1 |
| Second Quarter..    | 3  | Fourth Quarter..... | 3 |
|                     | —  |                     | — |
| First half.....     | 14 | Second half.....    | 4 |
| Whole year..... 18. |    |                     |   |

The following Table will exhibit various facts in relation to mortality from croup for thirty-five years :

## TABLE LXXII.

*Mortality in the State from Croup, from 1866 to 1900, inclusive.*

| YEARS.            | Number of Deaths. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|-------------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                   |                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 1866-1870...      | 225               | 1.47      | 112    | 115      | 96         | 131      | 6                       | 13           | 19              | 82                  | 99               | 8                  |
| 1871-1875.....    | 367               | 1.79      | 198    | 169      | 164        | 203      | 13                      | 30           | 13              | 131                 | 169              | 11                 |
| 1876.....         | 102               | 2.61      | 50     | 52       | 42         | 60       | 1                       | 6            | .....           | 26                  | 65               | 4                  |
| 1877.....         | 95                | 2.23      | 48     | 47       | 34         | 61       | 4                       | 3            | 1               | 47                  | 40               | .....              |
| 1878.....         | 93                | 2.30      | 45     | 48       | 43         | 50       | 14                      | 3            | 7               | 25                  | 39               | 5                  |
| 1879.....         | 96                | 2.28      | 58     | 38       | 40         | 56       | 3                       | 6            | 15              | 25                  | 43               | 4                  |
| 1880.....         | 66                | 1.45      | 32     | 34       | 27         | 39       | 3                       | 3            | 4               | 20                  | 30               | 6                  |
| 1876-1880.....    | 452               | 2.03      | 233    | 219      | 186        | 266      | 25                      | 21           | 27              | 148                 | 217              | 19                 |
| 1881.....         | 101               | 2.16      | 45     | 56       | 38         | 63       | 2                       | 6            | 4               | 38                  | 49               | 2                  |
| 1882.....         | 77                | 1.60      | 41     | 36       | 32         | 45       | 1                       | 2            | 6               | 33                  | 32               | 3                  |
| 1883.....         | 71                | 1.40      | 32     | 39       | 33         | 38       | 1                       | 6            | 4               | 25                  | 35               | .....              |
| 1884.....         | 80                | 1.55      | 40     | 40       | 32         | 48       | 2                       | 11           | 4               | 29                  | 34               | .....              |
| 1885.....         | 94                | 1.74      | 45     | 49       | 42         | 52       | 4                       | 8            | 6               | 46                  | 28               | 2                  |
| 1881-1885.....    | 423               | 1.63      | 203    | 220      | 177        | 246      | 10                      | 33           | 24              | 171                 | 178              | 7                  |
| 1886.....         | 90                | 1.53      | 45     | 45       | 39         | 51       | 2                       | 18           | 12              | 24                  | 32               | 2                  |
| 1887.....         | 113               | 1.79      | 58     | 55       | 43         | 70       | 9                       | 12           | 4               | 43                  | 39               | 6                  |
| 1888.....         | 79                | 1.19      | 43     | 36       | 34         | 45       | 4                       | 2            | 7               | 34                  | 27               | 5                  |
| 1889.....         | 80                | 1.28      | 37     | 43       | 24         | 56       | 3                       | 15           | 1               | 27                  | 33               | 1                  |
| 1890.....         | 83                | 1.19      | 53     | 30       | 28         | 55       | 2                       | 14           | 2               | 32                  | 31               | 2                  |
| 1886-1890.....    | 445               | 1.39      | 236    | 209      | 168        | 277      | 20                      | 61           | 26              | 160                 | 162              | 16                 |
| 1891.....         | 67                | 1.46      | 40     | 27       | 17         | 50       | 1                       | 11           | 11              | 27                  | 16               | 1                  |
| 1892.....         | 89                | 1.20      | 52     | 37       | 44         | 45       | 1                       | 10           | 21              | 21                  | 33               | 3                  |
| 1893.....         | 50                | .67       | 29     | 21       | 13         | 37       | 4                       | 11           | 3               | 25                  | 7                | .....              |
| 1894.....         | 32                | .45       | 16     | 16       | 10         | 22       | 1                       | 7            | 2               | 15                  | 7                | .....              |
| 1895.....         | 30                | .40       | 14     | 16       | 9          | 21       | .....                   | 6            | 4               | 11                  | 9                | .....              |
| 1891-1895.....    | 268               | .84       | 151    | 117      | 93         | 175      | 7                       | 45           | 41              | 99                  | 72               | 4                  |
| 1896.....         | 21                | .32       | 16     | 8        | 5          | 19       | .....                   | 1            | .....           | 12                  | 8                | .....              |
| 1897.....         | 17                | .24       | 11     | 6        | 4          | 13       | .....                   | 8            | .....           | 5                   | 4                | .....              |
| 1898.....         | 9                 | .13       | 4      | 5        | 3          | 6        | .....                   | 2            | .....           | 4                   | 2                | 1                  |
| 1899.....         | 11                | .15       | 3      | 8        | 4          | 7        | .....                   | .....        | 2               | 5                   | 4                | .....              |
| 1900.....         | 18                | .20       | 9      | 9        | 6          | 12       | .....                   | 4            | .....           | 4                   | 9                | 1                  |
| 1896-1900..       | 79                | .21       | 43     | 36       | 22         | 57       | .....                   | 18           | 2               | 30                  | 27               | 2                  |
| Total, 35 years.. | 2,261             | 1.19      | 1,176  | 1,085    | 906        | 1,355    | 81                      | 221          | 152             | 816                 | 924              | 67                 |

\* Exclusive of Providence city.

## DIARRHŒA AND DYSENTERY.

There were 112 decedents from diarrhœa and dysentery, in 1900.

This number represents 1.3 per cent. of all causes, and a proportion of .26 to every 1,000 of the population.

*Sex.*—Of the 112, 49 were males and 63 were females, or a proportion of 78 males to every 100 females.

*Parentage.*—There were, of the 112 decedents, 48 of native parentage and 64 of foreign parentage, or a proportion of about 133 of foreign parentage to every 100 of native.

*Age.*—There were 42 of the decedents from diarrhœa and dysentery under 5 years of age, and there were 53 over 50 years of age, leaving 17 for all the 45 years between 5 and 50.

*Locality.*—Of the 112 decedents, 71 were in Providence county; 18 in Kent county; 9 were reported from Washington county, 8 from Newport county, and 6 from Bristol county.

*Season.*—Ninety-one of the deaths from diarrhœa and dysentery occurred during the months of July, August, September, and October.

The following Table will show the deaths from diarrhœa and dysentery, with the percentage, sex, parentage, etc., for each of 35 years, beginning with 1860.

## TABLE LXXIII.

*Mortality in the State from Diarrhea and Dysentery, 1866 to 1900, inclusive.*

| YEARS.             | Number of Deaths. |           | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|--------------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                    |                   | Per cent. | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 5 years, 1866-1870 | 677               | 4.40      | 353    | 324      | 323        | 354      | 26                      | 46           | 89              | 215                 | 254              | 47                 |
| 1871-1875.....     | 580               | 2.60      | 317    | 263      | 305        | 275      | 27                      | 46           | 23              | 183                 | 289              | 12                 |
| 1876.....          | 122               | 2.96      | 66     | 56       | 52         | 70       | 3                       | 6            | 2               | 41                  | 65               | 5                  |
| 1877.....          | 142               | 3.19      | 64     | 78       | 73         | 69       | 8                       | 6            | 9               | 54                  | 55               | 10                 |
| 1878.....          | 93                | 2.09      | 42     | 51       | 51         | 42       | 5                       | 8            | 2               | 34                  | 39               | 5                  |
| 1879.....          | 97                | 2.17      | 48     | 49       | 47         | 50       | 9                       | 6            | 10              | 27                  | 42               | 3                  |
| 1880.....          | 98                | 2.03      | 49     | 49       | 50         | 48       | 4                       | 6            | 10              | 32                  | 42               | 4                  |
| 1876-1880....      | 552               | 2.47      | 269    | 283      | 273        | 279      | 29                      | 32           | 33              | 188                 | 243              | 27                 |
| 1881.....          | 119               | 2.37      | 56     | 63       | 54         | 65       | 2                       | 4            | 3               | 47                  | 57               | 6                  |
| 1882.....          | 158               | 3.11      | 75     | 83       | 69         | 89       | 2                       | 4            | 28              | 57                  | 64               | 3                  |
| 1883.....          | 182               | 3.45      | 86     | 96       | 88         | 94       | 7                       | 7            | 16              | 74                  | 75               | 3                  |
| 1884.....          | 153               | 2.98      | 74     | 79       | 69         | 84       | 10                      | 5            | 11              | 66                  | 56               | 5                  |
| 1885.....          | 120               | 2.23      | 61     | 59       | 51         | 69       | 7                       | 6            | 6               | 62                  | 35               | 4                  |
| 1881-1885.....     | 732               | 2.89      | 352    | 380      | 331        | 401      | 28                      | 26           | 64              | 306                 | 287              | 21                 |
| 1886.....          | 159               | 2.72      | 64     | 95       | 70         | 89       | 7                       | 11           | 1               | 73                  | 59               | 8                  |
| 1887.....          | 199               | 3.11      | 107    | 92       | 70         | 129      | 6                       | 16           | 4               | 92                  | 72               | 9                  |
| 1888.....          | 157               | 2.31      | 69     | 88       | 97         | 60       | 6                       | 8            | 3               | 54                  | 71               | 15                 |
| 1889.....          | 159               | 2.54      | 73     | 86       | 67         | 92       | 1                       | 12           | 17              | 71                  | 50               | 8                  |
| 1890.....          | 182               | 2.62      | 84     | 98       | 74         | 108      | 5                       | 9            | 22              | 77                  | 63               | 6                  |
| 1886-1890.....     | 856               | 2.68      | 397    | 459      | 378        | 478      | 25                      | 56           | 47              | 367                 | 315              | 46                 |
| 1891.....          | 143               | 2.16      | 69     | 74       | 51         | 92       | 4                       | 15           | 13              | 48                  | 58               | 5                  |
| 1892.....          | 199               | 2.69      | 100    | 99       | 82         | 117      | 6                       | 14           | 8               | 76                  | 89               | 6                  |
| 1893.....          | 159               | 2.14      | 79     | 80       | 56         | 103      | 5                       | 14           | 7               | 60                  | 66               | 7                  |
| 1894.....          | 121               | 1.73      | 61     | 63       | 36         | 88       | .....                   | 8            | 4               | 59                  | 43               | 10                 |
| 1895.....          | 101               | 1.34      | 38     | 63       | 40         | 61       | 6                       | 9            | 3               | 41                  | 37               | 5                  |
| 1891-1895.....     | 726               | 2.01      | 347    | 379      | 265        | 461      | 21                      | 60           | 35              | 281                 | 293              | 33                 |
| 1896.....          | 89                | 1.18      | 49     | 40       | 40         | 49       | 2                       | 5            | 8               | 39                  | 28               | 7                  |
| 1897.....          | 107               | 1.50      | 48     | 59       | 37         | 70       | 1                       | 14           | 7               | 41                  | 36               | 8                  |
| 1898.....          | 98                | 1.42      | 53     | 45       | 33         | 65       | 2                       | 14           | 5               | 32                  | 40               | 5                  |
| 1899.....          | 111               | 1.47      | 49     | 62       | 34         | 77       | .....                   | 9            | 11              | 55                  | 32               | 4                  |
| 1900.....          | 112               | 1.37      | 49     | 63       | 48         | 64       | 6                       | 18           | 8               | 40                  | 31               | 9                  |
| 1896-1900.....     | 517               | 1.37      | 248    | 269      | 192        | 325      | 11                      | 60           | 39              | 207                 | 167              | 33                 |
| Total, 35 years..  | 4,640             | 2.41      | 2,283  | 2,357    | 2,067      | 2,573    | 167                     | 326          | 330             | 1,750               | 1,848            | 219                |

\* Exclusive of Providence city.

## DIPHTHERIA.

The number of deaths from diphtheria, in 1900, was 190, which was 104 more than in 1899, or an increase of 1 per cent.

This number represents 2.15 per cent. of all causes, or a proportion of .44 to every one thousand of the population.

*Sex.*—Of the 190 decedents, 106 were males, and 84 were females.

*Parentage.*—There were 76 of native, and 114 of foreign parentage, or a proportion of about 150 of foreign parentage to every 100 of native.

*Season.*—There were 46 deaths from diphtheria in the first quarter, 30 the second quarter, 27 in the third quarter, and 87 in the fourth quarter.

*Age.*—There were 127 deaths under 5 years of age, 49 between 5 and 10, 6 between 10 and 15, 3 between 15 and 20, and 5 above 20 years of age.

*Locality.*—Of the 190 decedents, 136 were in Providence county, 5 in Bristol county, 22 in Kent county, 15 in Newport county, and 12 in Washington county.

The following Table shows the mortality in the State from diphtheria for thirty-five years, beginning with 1866, also the percentage of deaths, the sex, parentage, etc. :



## TABLE LXXIV.

*Mortality in the State from Diphtheria, 1866 to 1900.*

| YEARS.              | Whole Number of Deaths, all causes. | Number of Deaths, Diphtheria. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|---------------------|-------------------------------------|-------------------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                     |                                     |                               |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 1866-1870..         | 15,391                              | 181                           | 1.18      | 83     | 98       | 103        | 78       | 5                       | 28           | 30              | 40                  | 44               | 34                 |
| 1871-1875..         | 20,540                              | 242                           | 1.18      | 118    | 124      | 154        | 88       | 4                       | 35           | 20              | 54                  | 105              | 24                 |
| 1876.....           | 4,116                               | 150                           | 3.86      | 77     | 82       | 69         | 90       | 1                       | 2            | 9               | 29                  | 111              | 7                  |
| 1877.....           | 4,450                               | 492                           | 11.56     | 289    | 253      | 233        | 259      | 12                      | 44           | 2               | 122                 | 295              | 17                 |
| 1878.....           | 4,441                               | 435                           | 9.80      | 224    | 211      | 201        | 234      | 21                      | 29           | 23              | 106                 | 245              | 11                 |
| 1879.....           | 4,472                               | 259                           | 5.79      | 121    | 138      | 143        | 116      | 7                       | 19           | 20              | 95                  | 106              | 12                 |
| 1880.....           | 4,829                               | 152                           | 3.40      | 73     | 79       | 75         | 77       | 3                       | 6            | 2               | 63                  | 61               | 17                 |
| 1876-1880..         | 22,308                              | 1,497                         | 6.71      | 734    | 763      | 721        | 776      | 44                      | 100          | 56              | 415                 | 818              | 64                 |
| 1881.....           | 5,016                               | 216                           | 4.63      | 106    | 110      | 118        | 98       | 10                      | 16           | 8               | 53                  | 116              | 13                 |
| 1882.....           | 5,074                               | 101                           | 1.99      | 48     | 53       | 55         | 46       | .....                   | 3            | 4               | 29                  | 48               | 17                 |
| 1883.....           | 5,282                               | 95                            | 1.88      | 39     | 56       | 45         | 50       | 1                       | 7            | 3               | 26                  | 54               | 4                  |
| 1884.....           | 5,141                               | 119                           | 2.31      | 65     | 54       | 47         | 72       | 8                       | 1            | 9               | 39                  | 58               | 4                  |
| 1885.....           | 5,889                               | 99                            | 1.83      | 47     | 52       | 48         | 51       | 5                       | 5            | 6               | 39                  | 37               | 7                  |
| 1881-1885..         | 25,902                              | 630                           | 2.43      | 305    | 325      | 313        | 317      | 24                      | 32           | 30              | 186                 | 313              | 45                 |
| 1886.....           | 5,849                               | 228                           | 3.90      | 98     | 130      | 101        | 127      | 20                      | 21           | 23              | 61                  | 98               | 2                  |
| 1887.....           | 6,340                               | 287                           | 4.53      | 135    | 152      | 101        | 186      | 15                      | 11           | 4               | 114                 | 108              | 35                 |
| 1888.....           | 6,594                               | 191                           | 2.86      | 87     | 104      | 79         | 112      | 13                      | 3            | 9               | 58                  | 98               | 10                 |
| 1889... ..          | 6,259                               | 184                           | 2.93      | 80     | 104      | 89         | 95       | 3                       | 10           | 11              | 56                  | 97               | 7                  |
| 1890.....           | 6,934                               | 211                           | 3.04      | 112    | 99       | 93         | 118      | 1                       | 9            | 16              | 86                  | 94               | 5                  |
| 1886-1890..         | 31,976                              | 1,101                         | 3.44      | 512    | 589      | 463        | 638      | 52                      | 54           | 63              | 378                 | 495              | 59                 |
| 1891.....           | 6,620                               | 102                           | 1.50      | 52     | 50       | 48         | 54       | 2                       | 7            | 6               | 40                  | 47               | ....               |
| 1892.....           | 7,396                               | 89                            | 1.20      | 48     | 41       | 41         | 45       | 1                       | 1            | 8               | 23                  | 39               | 17                 |
| 1893.....           | 7,440                               | 157                           | 2.11      | 75     | 82       | 57         | 100      | 1                       | 11           | 13              | 67                  | 65               | ....               |
| 1894.....           | 7,160                               | 133                           | 1.86      | 74     | 59       | 61         | 72       | .....                   | 3            | 8               | 72                  | 47               | 3                  |
| 1895.....           | 7,535                               | 340                           | 4.51      | 166    | 174      | 145        | 195      | 3                       | 7            | 6               | 221                 | 94               | 9                  |
| 1891-1895..         | 36,151                              | 821                           | 2.24      | 415    | 406      | 355        | 466      | 7                       | 29           | 41              | 423                 | 292              | 29                 |
| 1896.....           | 7,504                               | 283                           | 3.77      | 149    | 131      | 120        | 163      | 5                       | 19           | 6               | 109                 | 140              | 4                  |
| 1897.....           | 7,110                               | 231                           | 3.25      | 120    | 111      | 84         | 147      | 3                       | 19           | 8               | 111                 | 86               | 4                  |
| 1898. ....          | 6,905                               | 93                            | 1.35      | 51     | 42       | 34         | 59       | .....                   | 12           | 5               | 32                  | 40               | 4                  |
| 1899.....           | 7,458                               | 86                            | 1.15      | 35     | 51       | 31         | 55       | 1                       | 10           | 4               | 28                  | 40               | 3                  |
| 1900.....           | 8,823                               | 190                           | 2.15      | 106    | 84       | 76         | 114      | 5                       | 22           | 15              | 83                  | 53               | 12                 |
| 1896-1900..         | 37,890                              | 883                           | 2.31      | 461    | 422      | 345        | 538      | 14                      | 82           | 38              | 363                 | 359              | 27                 |
| Total,<br>35 years. | 190,068                             | 5,255                         | 2.82      | 2,628  | 2,727    | 2,451      | 2,901    | 150                     | 360          | 278             | 1,859               | 2,426            | 282                |

\* Exclusive of Providence city.

## FEVER, MALARIAL.

The number of deaths, during 1900, from diseases classed as fever malarial, was 21. The number in 1899 was 30; in 1898 was 31; in 1897 was 44; in 1896 was 42; in 1895 was 29; in 1894 was 26; in 1893 was 20; in 1892 was 36; in 1891, 31; in 1890, 42; in 1889, 40; in 1888, 71; in 1887, 85; in 1886, 44; in 1885, 30; 1884, 25.

*Sex.*—Of the 21 decedents from malarial fevers, in 1900, 12 were males and 9 were females.

*Parentage.*—There were, of the 21 decedents from malarial diseases, 13 of native parentage, and 8 of foreign.

*Season.*—The deaths from malarial diseases occurred in the different seasons of the year as follows:

|                      |   |                     |    |
|----------------------|---|---------------------|----|
| First Quarter .....  | 1 | Third Quarter.....  | 8  |
| Second Quarter ..... | 7 | Fourth Quarter..... | 5  |
| <hr/>                |   |                     |    |
| First half.....      | 8 | Second half .....   | 13 |
| <hr/>                |   |                     |    |
| Whole year.....      |   |                     |    |
| 21.                  |   |                     |    |

*Age.*—The number of decedents in the different periods of life was as follows:

|                                 |    |
|---------------------------------|----|
| Under 5 years of age.....       | 6  |
| From 5 to 20 years of age.....  | 4  |
| From 20 to 40 years of age..... | 5  |
| From 40 to 60 years of age..... | 2  |
| 60 and over.....                | 4  |
| <hr/>                           |    |
| Total.....                      | 21 |

*Localities.*—Bristol county, 4; Kent county, 1; Newport county, 2; Providence county, 14; Washington county, 0.

## FEVERS, TYPHOID, ETC.

The number of decedents whose deaths were returned as having been caused by "fever" of some form, not malarial nor cerebro-spinal, was 127. Deaths from puerperal fever are not included.

The following Table exhibits, for each of the last thirty-five years, the number and the percentage, and the sex and parentage of the decedents from fevers returned as from typhoid, and the number in each division of the State.

TABLE LXXV.

*Mortality in the State from Fevers, Typhoid, etc.—1866 to 1900, inclusive.*

| YEARS.            | Number of Deaths. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|-------------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                   |                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 1866-1870.....    | 641               | 4.2       | 314    | 327      | 398        | 243      | 35                      | 39           | 77              | 243                 | 184              | 63                 |
| 1871-1875.....    | 740               | 3.5       | 350    | 390      | 419        | 321      | 12                      | 43           | 34              | 263                 | 299              | 89                 |
| 1876.....         | 126               | 3.0       | 65     | 61       | 71         | 55       | 5                       | 9            | 13              | 44                  | 33               | 22                 |
| 1877.....         | 134               | 3.0       | 63     | 71       | 65         | 69       | 8                       | 10           | 8               | 52                  | 44               | 12                 |
| 1878.....         | 150               | 3.4       | 68     | 82       | 77         | 73       | 13                      | 13           | 6               | 59                  | 47               | 12                 |
| 1879.....         | 114               | 2.7       | 47     | 67       | 63         | 51       | 4                       | 13           | 6               | 44                  | 40               | 7                  |
| 1880.....         | 158               | 3.4       | 74     | 84       | 94         | 64       | 8                       | 12           | 5               | 66                  | 52               | 15                 |
| 1876-1880.....    | 682               | 3.1       | 317    | 365      | 370        | 312      | 38                      | 57           | 38              | 265                 | 216              | 68                 |
| 1881.....         | 143               | 2.8       | 74     | 69       | 74         | 69       | 4                       | 13           | 14              | 58                  | 41               | 13                 |
| 1882.....         | 229               | 4.7       | 111    | 118      | 100        | 129      | 6                       | 11           | 5               | 56                  | 145              | 6                  |
| 1883.....         | 258               | 4.8       | 140    | 112      | 117        | 141      | 9                       | 16           | 10              | 82                  | 134              | 7                  |
| 1884.....         | 165               | 3.2       | 83     | 82       | 78         | 87       | 7                       | 7            | 12              | 66                  | 64               | 9                  |
| 1885.....         | 158               | 2.9       | 71     | 87       | 70         | 88       | 6                       | 14           | 8               | 69                  | 53               | 8                  |
| 1881-1885.....    | 953               | 3.7       | 485    | 468      | 439        | 514      | 32                      | 61           | 49              | 331                 | 437              | 43                 |
| 1886.....         | 169               | 2.9       | 78     | 91       | 76         | 93       | 6                       | 8            | 11              | 66                  | 70               | 8                  |
| 1887.....         | 127               | 2.0       | 67     | 60       | 58         | 69       | 2                       | 14           | 9               | 49                  | 38               | 15                 |
| 1888.....         | 235               | 3.6       | 125    | 110      | 88         | 147      | 20                      | 24           | 14              | 66                  | 102              | 9                  |
| 1889.....         | 143               | 2.3       | 85     | 58       | 56         | 87       | 2                       | 17           | 9               | 46                  | 60               | 9                  |
| 1890.....         | 107               | 1.5       | 58     | 49       | 39         | 68       | 7                       | 8            | 5               | 37                  | 43               | 7                  |
| 1886-1890.....    | 781               | 2.5       | 413    | 368      | 317        | 464      | 37                      | 71           | 48              | 264                 | 313              | 48                 |
| 1891.....         | 149               | 2.2       | 86     | 63       | 56         | 93       | 5                       | 8            | 17              | 46                  | 63               | 10                 |
| 1892.....         | 133               | 1.8       | 75     | 58       | 55         | 78       | 5                       | 12           | 9               | 49                  | 51               | 7                  |
| 1893.....         | 115               | 1.6       | 65     | 50       | 41         | 74       | 4                       | 7            | 5               | 40                  | 52               | 7                  |
| 1894.....         | 159               | 2.2       | 93     | 66       | 46         | 113      | 5                       | 13           | 13              | 56                  | 70               | 2                  |
| 1895.....         | 125               | 1.7       | 73     | 52       | 55         | 70       | 3                       | 7            | 11              | 52                  | 48               | 4                  |
| 1891-1895.....    | 681               | 1.9       | 392    | 289      | 253        | 428      | 22                      | 47           | 55              | 243                 | 284              | 30                 |
| 1896.....         | 113               | 1.5       | 66     | 47       | 41         | 69       | 6                       | 8            | 9               | 39                  | 43               | 8                  |
| 1897.....         | 66                | 0.9       | 43     | 23       | 33         | 33       | 4                       | 4            | 4               | 25                  | 23               | 6                  |
| 1898.....         | 76                | 1.1       | 49     | 27       | 23         | 53       | 2                       | 3            | 11              | 20                  | 39               | 1                  |
| 1899.....         | 90                | 1.2       | 53     | 37       | 41         | 49       | 3                       | 6            | 9               | 24                  | 42               | 6                  |
| 1900.....         | 127               | 1.4       | 70     | 57       | 51         | 76       | 4                       | 6            | 23              | 43                  | 39               | 12                 |
| 1896-1900.....    | 472               | 1.2       | 281    | 191      | 192        | 280      | 19                      | 27           | 56              | 151                 | 186              | 33                 |
| Total, 35 years.. | 4,950             | 2.6       | 2,552  | 2,398    | 2,378      | 2,562    | 195                     | 345          | 357             | 1,760               | 1,919            | 374                |

\* Exclusive of Providence city.

During 1900, of the 127 decedents from typhoid fever, there were 70 males and 57 females, a proportion of about 123 males to every 100 females. The difference in the sexes of the mortality from fevers is not usually very great.

During the period of thirty-five years, 1866 to 1900, inclusive, the proportions of the sexes of the decedents from "fever," in the State, were 94 females to every 100 males.

*Parentage.*—There were 51 decedents from enteric fever, of native parentage, in 1900, and 76 of foreign parentage, a proportion of 60 of foreign and 40 of native in every 100 decedents.

*Season.*—

|                     |    |                     |    |
|---------------------|----|---------------------|----|
| First Quarter.....  | 17 | Third Quarter.....  | 30 |
| Second Quarter..... | 28 | Fourth Quarter..... | 52 |
| <hr/>               |    |                     |    |
| First half. ....    | 45 | Second half.....    | 82 |
| <hr/>               |    |                     |    |
| Whole year.....     |    |                     |    |
| 127                 |    |                     |    |

The following Table shows the number of decedents from fevers, in each division of ages, in each of the last thirty-five years, in the State of Rhode Island :

## TABLE LXXVI.

*Mortality from Typhoid Fever in Age Periods.*

| YEARS.               | PERIODS OF LIFE. |           |           |           |           |           |           |           |           |              |
|----------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|
|                      | Under 10.        | 10 to 15. | 15 to 20. | 20 to 30. | 30 to 40. | 40 to 50. | 50 to 60. | 60 to 70. | 70 to 80. | 80 and over. |
| 1866.....            | 23               | 10        | 21        | 26        | 21        | 16        | 9         | 14        | 10        | .....        |
| 1867.....            | 17               | 6         | 23        | 33        | 12        | 11        | 8         | 4         | 2         | 2            |
| 1868.....            | 10               | 7         | 10        | 21        | 8         | 8         | 10        | 5         | 5         | .....        |
| 1869.....            | 10               | 8         | 14        | 28        | 9         | 7         | 9         | 8         | 6         | 2            |
| 1870.....            | 26               | 13        | 31        | 46        | 19        | 25        | 8         | 8         | 8         | 2            |
| 1871.....            | 13               | 10        | 20        | 28        | 18        | 16        | 9         | 4         | 5         | 2            |
| 1872.....            | 17               | 18        | 34        | 54        | 20        | 9         | 12        | 11        | 3         | 1            |
| 1873.....            | 27               | 12        | 34        | 31        | 25        | 13        | 13        | 7         | 8         | 2            |
| 1874.....            | 10               | 14        | 26        | 32        | 9         | 5         | 10        | 3         | 6         | 2            |
| 1875.....            | 23               | 14        | 19        | 43        | 18        | 10        | 10        | 6         | 4         | .....        |
| 1876.....            | 21               | 10        | 15        | 24        | 14        | 9         | 6         | 16        | 6         | 3            |
| 1877.....            | 22               | 13        | 18        | 36        | 20        | 8         | 5         | 7         | 2         | 2            |
| 1878.....            | 17               | 16        | 27        | 47        | 13        | 11        | 12        | 2         | 3         | 2            |
| 1879.....            | 19               | 7         | 14        | 26        | 15        | 6         | 3         | 12        | 8         | 3            |
| 1880.....            | 25               | 12        | 24        | 43        | 23        | 12        | 10        | 5         | 3         | .....        |
| 1881.....            | 25               | 9         | 19        | 29        | 14        | 11        | 9         | 12        | 11        | 4            |
| 1882.....            | 24               | 22        | 44        | 69        | 27        | 14        | 9         | 10        | 9         | 1            |
| 1883.....            | 36               | 25        | 46        | 75        | 31        | 12        | 11        | 10        | 8         | 2            |
| 1884.....            | 24               | 13        | 19        | 47        | 22        | 9         | 12        | 10        | 5         | 3            |
| 1885.....            | 35               | 12        | 16        | 25        | 26        | 11        | 11        | 12        | 6         | 4            |
| 1886.....            | 29               | 9         | 25        | 41        | 20        | 14        | 17        | 8         | 5         | 1            |
| 1887.....            | 24               | 8         | 16        | 31        | 16        | 10        | 5         | 8         | 4         | 4            |
| 1888.....            | 27               | 27        | 42        | 75        | 29        | 16        | 12        | 3         | 4         | .....        |
| 1889.....            | 18               | 12        | 29        | 41        | 18        | 8         | 9         | 5         | 3         | .....        |
| 1890.....            | 13               | 11        | 13        | 35        | 14        | 5         | 6         | 6         | 4         | .....        |
| 1891.....            | 12               | 10        | 25        | 50        | 26        | 10        | 7         | 6         | 2         | .....        |
| 1892.....            | 10               | 11        | 18        | 42        | 20        | 15        | 10        | 6         | 1         | .....        |
| 1893.....            | 6                | 7         | 16        | 43        | 15        | 10        | 10        | 6         | 2         | .....        |
| 1894.....            | 18               | 8         | 31        | 57        | 21        | 12        | 6         | 3         | 2         | .....        |
| 1895.....            | 10               | 9         | 10        | 56        | 15        | 7         | 9         | 5         | 4         | .....        |
| 1896.....            | 10               | 3         | 18        | 35        | 13        | 16        | 6         | 7         | 5         | .....        |
| 1897.....            | 6                | 4         | 7         | 22        | 11        | 9         | 3         | 3         | 1         | .....        |
| 1898.....            | 8                | 5         | 8         | 23        | 21        | 9         | 1         | 1         | .....     | .....        |
| 1899.....            | 17               | 15        | 5         | 19        | 17        | 10        | 2         | 1         | 2         | 1            |
| 1900.....            | 13               | 9         | 17        | 41        | 23        | 12        | 6         | 2         | 1         | .....        |
| Total, 35 years..... | 645              | 399       | 754       | 1,377     | 613       | 386       | 295       | 236       | 158       | 43           |

TABLE LXXVII.

*Comparative Exhibit of the Percentage of Deaths from Typhoid Fever to Total Deaths from specified causes, in Six New England States, for twenty-five years, 1876 to 1900.*

| STATES.            | 1876 | 1877 | 1878 | 1879 | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | 1900 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Rhode Island.....  | 3.0  | 3.0  | 3.4  | 2.7  | 3.4  | 2.8  | 4.7  | 4.8  | 3.2  | 2.9  | 2.9  | 2.0  | 3.6  | 2.2  | 1.5  | 2.2  | 1.8  | 1.6  | 2.2  | 1.7  | 1.5  | 0.9  | 1.1  | 1.2  | 1.4  |
| Maine.....         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2.4  | 2.6  | 2.5  | 1.9  | 1.7  | 1.3  | 1.9  | 1.7  | .... |
| New Hampshire..... |      |      |      |      |      |      |      |      | 2.2  | 2.2  | 3.0  | 2.1  | 2.2  | 2.4  | 1.9  | 2.4  | 1.3  | 1.4  | 1.7  | 1.4  | 1.9  | 1.3  | 1.2  | 1.2  | 1.3  |
| Vermont.....       | 4.2  | 4.8  | 3.4  | 2.7  | 3.5  | 5.5  | 3.4  | 3.1  | 3.0  | 2.2  | 2.5  | 2.5  | 2.2  | 2.7  | 1.6  | 1.6  | 1.4  | 2.5  | 2.0  | 1.7  | 1.6  | 1.3  | 1.7  | 1.9  | .... |
| Massachusetts..... | 2.7  | 2.7  | 2.3  | 1.9  | 2.5  | 2.9  | 2.9  | 2.3  | 2.4  | 2.0  | 2.1  | 2.3  | 2.2  | 2.2  | 1.9  | 1.8  | 1.7  | 1.5  | 1.6  | 1.4  | 1.5  | 1.3  | 1.4  | 1.3  | 1.3  |
| Connecticut.....   | 3.6  | 3.3  | 2.7  | 1.8  | 2.5  | 2.5  | 3.1  | 2.1  | 2.5  | 1.1  | 2.2  | 1.2  | 2.2  | 2.2  | 2.3  | 2.3  | 2.0  | 1.8  | 1.8  | 1.8  | 1.5  | 1.1  | 1.3  | 1.3  | 1.8  |



## DISEASES OF THE HEART.

The number of decedents from the various forms of diseases of the heart, as reported in 1900, was 701. The number is 53 greater than that of 1900.

This number represents 7.95 per cent. of all causes, and a proportion of 1.63 to every 1,000 of the population.

*Sex.*—There were 319 male decedents, and 382 female decedents; a proportion of about 84 males to every 100 females, but these proportions, although varying from year to year, are not greatly different.

*Parentage.*—Of the 701 decedents from diseases of the heart, in 1900, there were 319 of native parentage, and 382 of foreign, a proportion of about 84 of native parentage to every 100 of foreign. Except in 1892, 1893, 1896, and 1900, it has been the invariable rule of the whole period of registration that the native population is more subject to heart disease than the foreign.

The following Table exhibits, for each of the last thirty-five years, 1866 to 1900, inclusive, the number and percentage, and the sex and parentage, of the decedents from diseases of the heart, and the number of the same in each division of the State:

## TABLE LXXVIII.

*Mortality from Diseases of the Heart, 1866 to 1900, inclusive.*

| YEARS.             | Number of Deaths. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|--------------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                    |                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 5 years, 1866-1870 | 590               | 3.83      | 308    | 282      | 395        | 195      | 22                      | 48           | 48              | 184                 | 262              | 26                 |
| 1871-1875.....     | 922               | 4.49      | 458    | 464      | 595        | 327      | 21                      | 46           | 82              | 248                 | 465              | 60                 |
| 1876.....          | 166               | 4.03      | 86     | 80       | 109        | 57       | 9                       | 11           | 10              | 38                  | 86               | 12                 |
| 1877.....          | 182               | 4.09      | 94     | 88       | 110        | 72       | 3                       | 7            | 9               | 57                  | 93               | 13                 |
| 1878.....          | 166               | 3.73      | 88     | 78       | 109        | 57       | 5                       | 11           | 15              | 38                  | 83               | 14                 |
| 1879.....          | 202               | 4.78      | 114    | 88       | 127        | 75       | 8                       | 20           | 16              | 38                  | 111              | 9                  |
| 1880.....          | 231               | 5.03      | 125    | 106      | 146        | 85       | 9                       | 2            | 29              | 59                  | 104              | 9                  |
| 1876-1880.....     | 947               | 4.25      | 507    | 440      | 601        | 346      | 34                      | 70           | 79              | 230                 | 477              | 57                 |
| 1881.....          | 264               | 5.65      | 131    | 133      | 154        | 110      | 9                       | 21           | 24              | 73                  | 121              | 16                 |
| 1882.....          | 255               | 5.31      | 116    | 139      | 162        | 93       | 8                       | 16           | 23              | 55                  | 142              | 11                 |
| 1883.....          | 325               | 6.20      | 167    | 158      | 179        | 146      | 8                       | 27           | 30              | 70                  | 172              | 18                 |
| 1884.....          | 285               | 5.60      | 135    | 150      | 163        | 122      | 6                       | 16           | 25              | 87                  | 139              | 12                 |
| 1885.....          | 349               | 6.48      | 162    | 187      | 198        | 151      | 13                      | 27           | 25              | 94                  | 150              | 31                 |
| 1881-1885.....     | 1,478             | 5.71      | 711    | 767      | 856        | 622      | 44                      | 107          | 127             | 379                 | 733              | 88                 |
| 1886.....          | 380               | 5.20      | 152    | 178      | 184        | 146      | 12                      | 20           | 18              | 82                  | 168              | 30                 |
| 1887.....          | 406               | 6.40      | 205    | 201      | 240        | 166      | 7                       | 21           | 36              | 123                 | 193              | 26                 |
| 1888.....          | 436               | 6.56      | 196    | 240      | 240        | 196      | 11                      | 22           | 40              | 122                 | 210              | 31                 |
| 1889.....          | 460               | 7.35      | 233    | 227      | 258        | 202      | 19                      | 31           | 39              | 143                 | 199              | 29                 |
| 1890.....          | 405               | 5.84      | 222    | 183      | 219        | 186      | 15                      | 49           | 27              | 114                 | 172              | 28                 |
| 1886-1890.....     | 2,037             | 6.37      | 1,008  | 1,029    | 1,141      | 896      | 64                      | 143          | 160             | 584                 | 942              | 144                |
| 1891.....          | 480               | 7.25      | 248    | 232      | 244        | 236      | 21                      | 37           | 38              | 137                 | 210              | 37                 |
| 1892.....          | 506               | 6.84      | 260    | 246      | 252        | 254      | 22                      | 47           | 48              | 163                 | 200              | 26                 |
| 1893.....          | 535               | 7.19      | 264    | 271      | 264        | 271      | 20                      | 43           | 30              | 174                 | 238              | 30                 |
| 1894.....          | 476               | 6.65      | 251    | 225      | 246        | 230      | 16                      | 32           | 41              | 161                 | 192              | 34                 |
| 1895.....          | 535               | 7.10      | 260    | 275      | 275        | 260      | 14                      | 41           | 54              | 180                 | 210              | 36                 |
| 1891-1895.....     | 2,532             | 7.01      | 1,283  | 1,249    | 1,281      | 1,251    | 93                      | 200          | 211             | 815                 | 1,050            | 163                |
| 1896.....          | 556               | 7.41      | 294    | 262      | 266        | 290      | 19                      | 40           | 38              | 189                 | 231              | 30                 |
| 1897.....          | 570               | 8.02      | 305    | 265      | 295        | 275      | 9                       | 38           | 42              | 200                 | 230              | 51                 |
| 1898.....          | 549               | 7.95      | 295    | 254      | 282        | 267      | 17                      | 42           | 44              | 171                 | 237              | 38                 |
| 1899.....          | 648               | 8.68      | 314    | 334      | 334        | 314      | 20                      | 56           | 72              | 190                 | 267              | 43                 |
| 1900.....          | 701               | 7.95      | 319    | 382      | 319        | 382      | 22                      | 49           | 57              | 241                 | 284              | 48                 |
| 1896-1900.....     | 3,024             | 8.00      | 1,527  | 1,497    | 1,496      | 1,528    | 87                      | 225          | 253             | 991                 | 1,249            | 219                |
| Total, 35 years..  | 11,590            | 6.07      | 5,802  | 5,728    | 6,365      | 5,165    | 365                     | 839          | 960             | 3,431               | 5,178            | 757                |

\* Not including Providence city.

*Sex.*—Of the 11,530 persons deceased from diseases of the heart, in the last thirty-five years, 5,802 were males, and 5,728 were females; or 101 males to each 100 females.

*Parentage.*—Of the 11,530 decedents, during thirty-five years, 6,365 were of native parentage, and 5,165 of foreign. The proportions would, therefore, stand as follows: To every 100 of foreign parentage there were about 123 of native; or about 55 native and 45 of foreign parentage in every 100 deaths. This difference has been gradually diminishing. In 1892 there were 2 more deaths of foreign than of native parentage; in 1893 there were 7 more deaths of foreign than of native parentage; in 1896 there were 24 more deaths of foreign than of native parentage; in 1897, however, there were 20 more deaths of native than of foreign parentage; in 1898 there were 15 more deaths of native than of foreign parentage; in 1899 there were 20 more deaths of native than of foreign parentage; but in 1900 there were 63 more deaths of foreign than of native parentage.

Diseases of the heart rank third in the order of causes in 1900.

The following Table shows the number of decedents from diseases of the heart, in each divisional period of life, in each of the last thirty-five years:

TABLE LXXIX.

*Mortality from Diseases of the Heart, in Age Periods.*

| YEAR.                | PERIODS OF LIFE. |           |           |           |           |           |           |                             |
|----------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------------------|
|                      | Under 20.        | 20 to 30. | 30 to 40. | 40 to 50. | 50 to 60. | 60 to 70. | 70 to 80. | 80 and over.<br>Not stated. |
| 1866 .....           | 18               | 8         | 14        | 17        | 10        | 23        | 21        | 4 .....                     |
| 1867 .....           | 11               | 11        | 10        | 13        | 22        | 16        | 27        | 4 .....                     |
| 1868 .....           | 15               | 5         | 13        | 11        | 14        | 28        | 25        | 5 .....                     |
| 1869 .....           | 21               | 4         | 14        | 18        | 20        | 22        | 21        | 7 1                         |
| 1870 .....           | 19               | 6         | 11        | 13        | 20        | 21        | 23        | 3 1                         |
| 1871 .....           | 9                | 12        | 10        | 19        | 23        | 36        | 28        | 6 1                         |
| 1872 .....           | 27               | 12        | 22        | 19        | 31        | 36        | 29        | 13 .....                    |
| 1873 .....           | 19               | 11        | 28        | 18        | 25        | 35        | 42        | 9 2                         |
| 1874 .....           | 20               | 16        | 26        | 21        | 27        | 50        | 40        | 12 2                        |
| 1875 .....           | 14               | 16        | 25        | 20        | 32        | 29        | 41        | 9 .....                     |
| 1876 .....           | 14               | 10        | 15        | 19        | 20        | 38        | 39        | 10 1                        |
| 1877 .....           | 15               | 11        | 20        | 18        | 27        | 45        | 33        | 13 .....                    |
| 1878 .....           | 16               | 8         | 18        | 16        | 26        | 36        | 35        | 11 .....                    |
| 1879 .....           | 19               | 9         | 13        | 25        | 33        | 51        | 36        | 16 .....                    |
| 1880 .....           | 15               | 10        | 18        | 23        | 38        | 49        | 49        | 28 1                        |
| 1881 .....           | 32               | 13        | 26        | 33        | 37        | 49        | 53        | 21 .....                    |
| 1882 .....           | 22               | 17        | 24        | 25        | 36        | 51        | 61        | 17 2                        |
| 1883 .....           | 39               | 13        | 21        | 33        | 52        | 65        | 76        | 26 .....                    |
| 1884 .....           | 15               | 25        | 21        | 32        | 45        | 61        | 50        | 32 4                        |
| 1885 .....           | 38               | 13        | 24        | 42        | 61        | 69        | 78        | 24 .....                    |
| 1886 .....           | 39               | 18        | 28        | 38        | 52        | 68        | 69        | 18 .....                    |
| 1887 .....           | 52               | 30        | 23        | 35        | 61        | 79        | 87        | 39 .....                    |
| 1888 .....           | 39               | 25        | 30        | 54        | 84        | 97        | 74        | 33 .....                    |
| 1889 .....           | 45               | 25        | 37        | 45        | 69        | 85        | 118       | 35 1                        |
| 1890 .....           | 34               | 15        | 24        | 53        | 69        | 78        | 96        | 36 .....                    |
| 1891 .....           | 40               | 18        | 45        | 41        | 85        | 109       | 101       | 38 3                        |
| 1892 .....           | 54               | 21        | 32        | 59        | 93        | 111       | 104       | 31 1                        |
| 1893 .....           | 55               | 27        | 48        | 68        | 81        | 116       | 97        | 42 1                        |
| 1894 .....           | 40               | 28        | 36        | 61        | 69        | 102       | 102       | 35 .....                    |
| 1895 .....           | 33               | 20        | 41        | 57        | 82        | 137       | 111       | 51 .....                    |
| 1896 .....           | 40               | 33        | 46        | 65        | 98        | 106       | 117       | 50 1                        |
| 1897 .....           | 40               | 34        | 43        | 68        | 71        | 145       | 117       | 49 .....                    |
| 1898 .....           | 34               | 22        | 31        | 57        | 91        | 134       | 130       | 50 .....                    |
| 1899 .....           | 23               | 28        | 37        | 77        | 111       | 153       | 169       | 48 2                        |
| 1900 .....           | 47               | 32        | 49        | 61        | 130       | 164       | 164       | 52 2                        |
| Total, 35 years..... | 1,013            | 606       | 926       | 1,277     | 1,818     | 2,491     | 2,463     | 877 26                      |

The results of thirty-five years of registration, with record of ages of decedents from diseases of the heart, show, in periods of twenty years each of life, the following percentages:

|                            |                 |
|----------------------------|-----------------|
| Under 20 years of age..... | 8.8 per cent.   |
| Between 20 and 40.....     | 13.3 per cent.  |
| Between 40 and 60.....     | 27.1 per cent.  |
| Between 60 and 80.....     | 43.0 per cent.  |
| Over 80.....               | 7.6 per cent.   |
| Not stated.....            | 0.2 per cent.   |
| Total.....                 | 100.0 per cent. |

It will be seen that 43 per cent. of all the deaths from diseases of the heart were of persons over sixty years of age, and under 80.

Diseases of the heart have acquired large importance as a cause of death. From 38.7 in every 1,000 deaths from all causes, in 1866, heart diseases gradually increased to about 73 in every 1,000 in 1899, and falling back to slightly less than 60 per 1,000 in 1890, and rising to 72.5 per 1,000 in 1891, and falling to 68.4 in 1892. In 1893 there were 71.9 deaths from heart diseases in every 1,000; in 1894, 66.5 deaths; in 1895, 71.0 deaths; in 1896, 74.1 deaths; in 1897, 80.1 deaths; in 1898, 79.5 deaths; in 1899, 86.9 deaths, and in 1900, 79.5 deaths in every 1,000.

### INFLUENZA.

The event, during the first four months of the year 1890, of a very extraordinary and perhaps unprecedented prevalence of a form of influenza, which was unlike that of ordinary occurrence in that it affected indiscriminately all the functions and nearly all the organs of the body, varying with the individuals attacked, and the re-appearance of the same, although in greatly lessened numbers, in 1891, warrants a continued notice not given previous to 1890 in the Registration Reports to the affection so named.

The disease was, in 1890, most largely confined to the respiratory passages, and resulted in a largely increased mortality from bronchitis and consumption. During 1891 the disease was equally as severe, affecting in a larger measure the brain and other nerve centres, and the direct mortality was even larger than that of 1890. The prevalence was largest during the second quarter of the year, and again in December.

The increase in December of 1891 was followed by a sudden augmentation in the first four months of the following year, 1892, the greatest number of deaths, 198, occurring in January of 1892. The total for 1892 was 336, or about twice as much as for either of the previous years. In 1893 there were 84 deaths reported as resulting from influenza. This was 251 less than in 1892. In 1894 there were 166 deaths from influenza reported, an increase of 95 per cent. from 1893, and a decrease of over 50 per cent. from 1892. In 1895 there were 115 deaths from influenza. In 1896 there were but 42 deaths from influenza. In 1897 there were 153 deaths from influenza. In 1898 there were 75 deaths from influenza. In 1899 there were 219 deaths from influenza. In 1900 there were 255 deaths from influenza.

*Sex.*—Of the 255 deaths from influenza, in 1900, 108 were males and 147 were females, a proportion of 73 males to every 100 females.

*Parentage.*—The parent nativity of the decedents was 120 of native and 135 of foreign.

*Season.*—Of the 255 deaths from influenza, during 1900, 74 occurred in the first quarter of the year, 168 in the second, 3 in the third, and 10 in the fourth quarter.

*Age.*—There were 16 under 5 years of age, 3 from 5 to 20 years, 23 from 20 to 40, 38 from 40 to 60, 121 from 60 to 80, 54 from 80 years of age and over.

The following Tables will show the proportionate nativity, sex, and locality of the disease.

The greatest mortality appears to be among females, there being 152 females to every 100 males. The parentage appears to be nearly equally divided between native and foreign, there being 104 foreign to 100 native.

The largest number of deaths occurred in Providence city, but this is not out of proportion to the proportionate number and density of population.

Referring to the age periods it will be seen that the greatest mortality occurred in the period from 70 to 80, there being 385 or 21.49 per cent. of the whole number of deaths from this disease. Taking the three decennials including 60 to 90 we have 919 deaths, or 51.30 per cent. of all by ages.

By season, the greatest number of deaths, 569, occurred in January; the next in number, 282, in April, followed by 278 in February, 227 in March, and 188 in December.



*Mortality in the State, from Influenza, 1890 to 1900, inclusive.*

| YEARS.         | Number of Deaths. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|----------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                |                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 1890 .....     | 168               | 2.42      | 72     | 96       | 68         | 100      | 6                       | 14           | 12              | 61                  | 70               | 5                  |
| 1891 .....     | 177               | 2.67      | 67     | 110      | 91         | 86       | 7                       | 14           | 14              | 60                  | 69               | 13                 |
| 1892 .....     | 366               | 4.54      | 142    | 194      | 170        | 166      | 11                      | 27           | 13              | 115                 | 144              | 26                 |
| 1893 .....     | 85                | 1.14      | 34     | 51       | 47         | 38       | 7                       | 3            | 5               | 33                  | 32               | 5                  |
| 1894 .....     | 166               | 2.32      | 62     | 104      | 88         | 78       | 6                       | 9            | 15              | 48                  | 75               | 13                 |
| 1895 .....     | 115               | 1.53      | 48     | 67       | 63         | 52       | 3                       | 10           | 9               | 42                  | 41               | 10                 |
| 1896 .....     | 42                | .56       | 15     | 27       | 16         | 26       | 2                       | 1            | 2               | 30                  | 6                | 1                  |
| 1897 .....     | 153               | 2.15      | 52     | 101      | 72         | 81       | 3                       | 6            | 3               | 72                  | 64               | 5                  |
| 1898 .....     | 75                | 1.09      | 29     | 46       | 40         | 35       | 8                       | 3            | 5               | 30                  | 26               | 3                  |
| 1899 .....     | 219               | 2.94      | 82     | 137      | 104        | 115      | 9                       | 6            | 14              | 94                  | 80               | 16                 |
| 1900 .....     | 255               | 2.89      | 108    | 147      | 120        | 135      | 8                       | 14           | 16              | 112                 | 98               | 7                  |
| 1890-1900..... | 1,791             | 2.21      | 711    | 1,080    | 879        | 912      | 70                      | 107          | 108             | 697                 | 705              | 104                |

*Influenza by Age Periods, 1890-1900.*

| YEARS.                                             | Under 1. | 1 to 5. | 5 to 10. | 10 to 20. | 20 to 30. | 30 to 40. | 40 to 50. | 50 to 60. | 60 to 70. | 70 to 80. | 80 to 90. | 90 and over. | Not stated. |
|----------------------------------------------------|----------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|-------------|
| 1890.....                                          | 14       | 18      | 4        | 8         | 14        | 22        | 18        | 17        | 19        | 17        | 11        | 5            | 1           |
| 1891.....                                          | 11       | 12      | .....    | 8         | 14        | 6         | 11        | 21        | 29        | 42        | 19        | 1            | .....       |
| 1892.....                                          | 26       | 20      | 2        | 6         | 13        | 19        | 25        | 33        | 74        | 74        | 41        | 3            | .....       |
| 1893.....                                          | 7        | 5       | 4        | 3         | 6         | 1         | 7         | 4         | 13        | 16        | 16        | 2            | 1           |
| 1894.....                                          | 6        | 14      | 2        | 5         | 11        | 6         | 20        | 12        | 32        | 37        | 17        | 4            | .....       |
| 1895.....                                          | 14       | 10      | 1        | 5         | 8         | 6         | 9         | 10        | 16        | 24        | 9         | 3            | .....       |
| 1896.....                                          | 1        | 3       | 2        | 1         | 1         | 2         | 2         | 4         | 13        | 6         | 6         | 1            | .....       |
| 1897.....                                          | 11       | 1       | 2        | 5         | 2         | 10        | 10        | 22        | 22        | 38        | 25        | 5            | .....       |
| 1898.....                                          | 12       | 4       | 1        | 1         | 4         | 6         | 5         | 8         | 7         | 13        | 8         | 6            | .....       |
| 1899.....                                          | 27       | 15      | 3        | 4         | 11        | 13        | 13        | 26        | 24        | 53        | 23        | 7            | .....       |
| 1900.....                                          | 9        | 7       | 1        | 2         | 14        | 9         | 13        | 25        | 56        | 65        | 54        | .....        | .....       |
| 1890-1900.....                                     | 138      | 109     | 22       | 48        | 98        | 100       | 136       | 182       | 305       | 385       | 229       | 37           | 2           |
| Per cent. of all ages for 11 years, 1890-1900. ... | 7.70     | 6.09    | 1.23     | 2.68      | 5.47      | 5.59      | 7.60      | 10.16     | 17.03     | 21.49     | 12.78     | 2.07         | 11          |

\* Exclusive of Providence city.

*Influenza by Months, 1890-1900.*

| YEARS.       | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Total. |
|--------------|----------|-----------|--------|--------|------|-------|-------|---------|------------|----------|-----------|-----------|--------|
| 1890.....    | 108      | 27        | 11     | 8      | 4    | 2     | 2     | ....    | 1          | 3        | 1         | 1         | 168    |
| 1891.....    | 4        | 3         | 1      | 32     | 19   | 19    | 2     | 2       | 2          | 4        | 1         | 98        | 177    |
| 1892.....    | 198      | 52        | 31     | 27     | 9    | 6     | ....  | 2       | 3          | 2        | 1         | 5         | 336    |
| 1893.....    | 5        | 1         | 2      | 19     | 12   | 4     | 1     | 2       | 1          | 1        | 1         | 36        | 85     |
| 1894.....    | 102      | 27        | 10     | 9      | 7    | 3     | 2     | 1       | 1          | ....     | 1         | 3         | 166    |
| 1895.....    | 12       | 20        | 43     | 16     | 7    | 6     | 5     | ....    | ....       | ....     | 2         | 4         | 115    |
| 1896.....    | 9        | 4         | 5      | 7      | 5    | 4     | 1     | 2       | 2          | 1        | ....      | 2         | 42     |
| 1897.....    | 26       | 67        | 29     | 11     | 4    | 3     | ....  | ....    | 2          | 2        | 3         | 6         | 153    |
| 1898.....    | 7        | 2         | 15     | 13     | 9    | 5     | 2     | ....    | 1          | ....     | 1         | 20        | 75     |
| 1899.....    | 93       | 59        | 27     | 16     | 7    | 1     | ....  | 3       | 1          | 2        | 2         | 8         | 219    |
| 1900.....    | 5        | 16        | 53     | 134    | 26   | 8     | ....  | 3       | ....       | 1        | 4         | 5         | 255    |
| 1890-1900... | 569      | 278       | 227    | 282    | 109  | 61    | 15    | 15      | 14         | 16       | 17        | 188       | 1,791  |

## INSANITY.

There were 54 deaths from insanity, in 1900, a decrease of 12 from 1899. The percentage to the whole number of deaths was .61. These deaths occurred chiefly at the Cranston institutions, and in the Butler hospital.

*Sex.*—There were 29 male and 25 female decedents.

*Parentage.*—The number of native decedents from insanity was 33, and of foreign parentage 21.

Of the 54 deaths in 1900, there were 17 from dementia, 4 from acute mania, 8 from chronic mania, 8 from melancholia, and 17 from insanity.

Of the 17 deaths from dementia, the secondary cause given in 3 cases was Bright's disease; 1, endocarditis; 4, paralysis; 1 diarrhœa; 8 cases, no secondary cause given.

Of the 17 deaths from insanity, the secondary cause given in 4 cases was pulmonary tuberculosis; 1, Bright's disease; 1, cerebral embolism; 1, thermic fever; 2 innutrition and general emaciation; 8 cases, no secondary cause given.

Of the 12 deaths from mania, acute and chronic, the secondary cause given in 3 cases was Bright's disease; 3, pulmonary tuberculosis; 1, heart syncope; 5 cases, no secondary cause given.

Of the 8 deaths from melancholia, in 1 case the secondary cause was pulmonary tuberculosis; 1, uræmia; 1, alcoholism; 1, kleptomeningitis; 1, exhaustion from bed-sores; 3 cases, no secondary cause given.

Secondary causes, with insanity in some form as a primary cause were as follows: Bright's disease, 8—dementia 3, insanity 1, mania, acute and chronic, 3, melancholia, 1; pulmonary tuberculosis 8—insanity 4, mania, acute and chronic, 3, melancholia, 1; thermic fever, 1—insanity; heart syncope, 1—mania, acute; embolism, 1—insanity; innutrition and general emaciation, 2—insanity; paralysis, 4—dementia; endocarditis, 1—dementia; diarrhoea, 1—dementia; klepto-meningitis, 1—melancholia; exhaustion from bed-sores, 1—melancholia.

The following Table shows the mortality in the State from insanity for thirty-five years, with percentage to deaths from all causes, sex, parentage, etc., from 1866 to 1900, inclusive:

TABLE LXXX.

*Mortality in the State from Insanity.*

| YEARS.             | Number of Deaths. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|--------------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                    |                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence city. | Washington County. |
| 5 years, 1866-1870 | 72                | .47       | 33     | 39       | 52         | 20       | .....                   | 5            | 4               | 7                   | 55               | 1                  |
| 1871-1875.....     | 106               | .52       | 55     | 51       | 76         | 30       | 3                       | 2            | 8               | 33                  | 58               | 2                  |
| 1876.....          | 12                | .28       | 5      | 7        | 9          | 3        | 1                       | 2            | 1               | 1                   | 6                | 1                  |
| 1877.....          | 19                | .49       | 9      | 10       | 9          | 10       | .....                   | 1            | .....           | 5                   | 12               | 1                  |
| 1878.....          | 22                | .50       | 5      | 17       | 16         | 6        | .....                   | .....        | 1               | 3                   | 17               | 1                  |
| 1879.....          | 17                | .40       | 11     | 6        | 10         | 7        | .....                   | .....        | .....           | 5                   | 11               | 1                  |
| 1880.....          | 19                | .39       | 9      | 10       | 13         | 6        | .....                   | 1            | 2               | 6                   | 9                | 1                  |
| 1876-1880.....     | 89                | .39       | 39     | 50       | 57         | 32       | 1                       | 4            | 4               | 20                  | 55               | 5                  |
| 1881.....          | 32                | .63       | 15     | 17       | 22         | 10       | 1                       | 1            | 3               | 10                  | 16               | 1                  |
| 1882.....          | 23                | .45       | 9      | 14       | 18         | 5        | .....                   | 1            | .....           | 8                   | 12               | 2                  |
| 1883.....          | 29                | .55       | 12     | 17       | 17         | 12       | 1                       | 2            | .....           | 7                   | 18               | 1                  |
| 1884.....          | 36                | .69       | 17     | 19       | 24         | 12       | 2                       | 3            | .....           | 21                  | 9                | 1                  |
| 1885.....          | 35                | .67       | 16     | 19       | 18         | 17       | .....                   | .....        | 2               | 23                  | 10               | .....              |
| 1881-1885.....     | 155               | .59       | 69     | 86       | 99         | 56       | 4                       | 7            | 5               | 69                  | 65               | 5                  |
| 1886.....          | 49                | .83       | 21     | 28       | 28         | 21       | 3                       | 1            | 1               | 37                  | 7                | .....              |
| 1887.....          | 64                | 1.01      | 35     | 29       | 33         | 31       | 1                       | .....        | 1               | 56                  | .....            | 6                  |
| 1888.....          | 43                | .64       | 21     | 22       | 24         | 19       | 1                       | 2            | .....           | 33                  | 7                | .....              |
| 1889.....          | 22                | .35       | 14     | 8        | 12         | 10       | .....                   | .....        | .....           | 14                  | 8                | .....              |
| 1890.....          | 30                | .44       | 19     | 11       | 16         | 14       | 1                       | 1            | 1               | 13                  | 14               | .....              |
| 1886-1890.....     | 208               | .65       | 110    | 98       | 113        | 95       | 6                       | 4            | 3               | 153                 | 36               | 6                  |
| 1891.....          | 21                | .32       | 10     | 11       | 16         | 5        | .....                   | 1            | .....           | 5                   | 13               | 2                  |
| 1892.....          | 27                | .37       | 17     | 10       | 15         | 12       | 3                       | 1            | .....           | 8                   | 14               | 1                  |
| 1893.....          | 39                | .53       | 14     | 25       | 13         | 26       | .....                   | .....        | .....           | 30                  | 9                | .....              |
| 1894.....          | 49                | .68       | 20     | 29       | 22         | 27       | 1                       | 1            | .....           | 27                  | 18               | 2                  |
| 1895.....          | 72                | .96       | 36     | 36       | 44         | 28       | 3                       | .....        | 1               | 41                  | 27               | .....              |
| 1891-1895.....     | 208               | .57       | 97     | 111      | 110        | 98       | 7                       | 3            | 1               | 111                 | 84               | 5                  |
| 1896.....          | 53                | .70       | 28     | 25       | 22         | 31       | .....                   | 2            | .....           | 40                  | 11               | .....              |
| 1897.....          | 103               | 1.45      | 53     | 50       | 51         | 52       | .....                   | 3            | 1               | 78                  | 12               | 6                  |
| 1898.....          | 82                | 1.19      | 41     | 41       | 37         | 45       | 3                       | .....        | 2               | 60                  | 10               | 7                  |
| 1899.....          | 66                | .88       | 37     | 29       | 33         | 33       | 3                       | 2            | 1               | 55                  | 5                | .....              |
| 1900.....          | 54                | .61       | 29     | 25       | 33         | 21       | 1                       | 1            | 2               | 45                  | 5                | .....              |
| 1896-1900.....     | 358               | .95       | 188    | 170      | 176        | 182      | 7                       | 8            | 9               | 278                 | 43               | 13                 |
| Total, 35 years..  | 1,196             | .63       | 591    | 605      | 683        | 513      | 28                      | 33           | 34              | 671                 | 393              | 37                 |

\* Exclusive of Providence city.

## DISEASES OF THE KIDNEYS.

There were 516 deaths returned, during 1900, with diseases of the kidneys assigned as the cause.

This number represents 5.8 per cent. of all causes, and a proportion of 1.20 to every 1,000 of the population.

*Sex.*—Of the 516 there were 240 males, and 276 females.

*Parentage.*—There were 275 of native parentage and 241 of foreign, or about 114 of native, to every 100 of foreign parentage.

*Age.*—Of the 516 decedents from kidney diseases, 9 were under 5 years of age, 23 from 5 to 20, 89 from 20 to 40, 166 from 40 to 60, 195 from 60 to 80, 33 80 and over, and 1 age unstated.

Diseases of the kidneys have largely increased in number, and much more largely in proportion, during the last thirty-five years.

During the ten years from 1866 to 1875, inclusive, the proportion of deaths from kidney diseases, to whole number of deaths from all causes, was but little more than one per cent., while during the ten years from 1886 to 1895, inclusive, the proportion was over four and one-half per cent.

The following Table will present various facts in relation to the mortality from diseases of the kidneys in Rhode Island, for thirty-five years, 1866–1900.

## TABLE LXXXI.

*Mortality in the State from Kidney Diseases, 1866 to 1900, inclusive.*

| YEARS.             | Number of Deaths | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|--------------------|------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                    |                  |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 5 years, 1866-1870 | 135              | 1.88      | 94     | 41       | 91         | 44       | 6                       | 7            | 25              | 23                  | 66               | 8                  |
| 1871-1875.....     | 295              | 1.44      | 167    | 128      | 187        | 108      | 11                      | 11           | 17              | 67                  | 172              | 17                 |
| 1876.....          | 50               | 1.28      | 22     | 28       | 32         | 18       | 1                       | 1            | 7               | 10                  | 28               | 3                  |
| 1877.....          | 67               | 1.57      | 40     | 27       | 35         | 32       | 2                       | 1            | .....           | 14                  | 49               | 1                  |
| 1878.....          | 80               | 1.89      | 50     | 30       | 49         | 31       | 4                       | 3            | 3               | 21                  | 47               | 2                  |
| 1879.....          | 79               | 1.88      | 51     | 28       | 44         | 35       | 1                       | 3            | 1               | 23                  | 43               | 8                  |
| 1880.....          | 91               | 2.02      | 52     | 39       | 51         | 40       | 1                       | 5            | 10              | 27                  | 46               | 2                  |
| 1876-1880.....     | 367              | 1.65      | 215    | 152      | 211        | 156      | 9                       | 13           | 21              | 95                  | 213              | 16                 |
| 1881.....          | 79               | 1.69      | 40     | 39       | 47         | 32       | 7                       | 5            | 4               | 14                  | 48               | 1                  |
| 1882.....          | 86               | 1.79      | 50     | 36       | 45         | 41       | 2                       | 5            | 10              | 15                  | 52               | 2                  |
| 1883.....          | 120              | 2.43      | 72     | 57       | 74         | 55       | 5                       | 2            | 17              | 37                  | 60               | 8                  |
| 1884.....          | 118              | 2.29      | 53     | 65       | 66         | 52       | 5                       | 11           | 12              | 28                  | 54               | 8                  |
| 1885.....          | 159              | 2.97      | 92     | 67       | 86         | 73       | 8                       | 10           | 17              | 31                  | 88               | 5                  |
| 1881-1885.....     | 571              | 2.20      | 307    | 264      | 318        | 253      | 27                      | 33           | 60              | 125                 | 302              | 24                 |
| 1886.....          | 155              | 2.49      | 85     | 70       | 93         | 62       | 3                       | 10           | 22              | 37                  | 71               | 12                 |
| 1887.....          | 169              | 2.66      | 92     | 77       | 90         | 79       | 5                       | 6            | 16              | 43                  | 92               | 7                  |
| 1888.....          | 213              | 3.23      | 102    | 111      | 122        | 91       | 10                      | 10           | 24              | 46                  | 115              | 8                  |
| 1889.....          | 210              | 3.38      | 119    | 91       | 122        | 88       | 14                      | 13           | 15              | 62                  | 96               | 10                 |
| 1890.....          | 229              | 3.20      | 116    | 113      | 109        | 120      | 15                      | 8            | 21              | 59                  | 116              | 10                 |
| 1886-1890.....     | 976              | 3.05      | 514    | 462      | 536        | 440      | 47                      | 47           | 98              | 247                 | 490              | 47                 |
| 1891.....          | 245              | 3.06      | 123    | 122      | 122        | 123      | 9                       | 12           | 25              | 72                  | 114              | 13                 |
| 1892.....          | 258              | 3.49      | 135    | 123      | 127        | 131      | 9                       | 11           | 24              | 70                  | 128              | 16                 |
| 1893.....          | 302              | 4.06      | 151    | 148      | 141        | 161      | 19                      | 15           | 25              | 81                  | 147              | 15                 |
| 1894.....          | 313              | 4.37      | 152    | 161      | 164        | 149      | 22                      | 20           | 33              | 84                  | 136              | 18                 |
| 1895.....          | 341              | 4.54      | 176    | 165      | 171        | 170      | 23                      | 19           | 29              | 96                  | 163              | 11                 |
| 1891-1895.....     | 1,459            | 3.90      | 740    | 720      | 725        | 734      | 82                      | 77           | 136             | 408                 | 688              | 73                 |
| 1896.....          | 395              | 5.26      | 209    | 186      | 188        | 207      | 19                      | 39           | 34              | 125                 | 160              | 18                 |
| 1897.....          | 387              | 5.44      | 198    | 189      | 185        | 202      | 24                      | 19           | 30              | 129                 | 164              | 21                 |
| 1898.....          | 471              | 6.82      | 228    | 243      | 207        | 264      | 19                      | 23           | 25              | 153                 | 219              | 32                 |
| 1899.....          | 477              | 6.40      | 241    | 236      | 215        | 262      | 23                      | 30           | 33              | 148                 | 223              | 20                 |
| 1900.....          | 516              | 5.85      | 240    | 276      | 275        | 241      | 16                      | 19           | 25              | 186                 | 236              | 34                 |
| 1896-1900.....     | 2,216            | 5.94      | 1,116  | 1,100    | 1,070      | 1,176    | 101                     | 130          | 147             | 744                 | 1,002            | 125                |
| Total, 35 years..  | 6,049            | 3.18      | 3,153  | 2,896    | 3,138      | 2,911    | 283                     | 318          | 504             | 1,701               | 2,933            | 310                |

\* Exclusive of Providence city.



## DISEASES OF THE LIVER.

There were 100 deaths reported, in 1900, as having been caused by structural diseases of the liver.

This number represents 1.13 per cent. of all causes, and a proportion of .20 to every 1,000 of the population.

Of the 100 decedents, there were 56 males and 44 females, or 79 females to every 100 males.

There were 36 of native parentage, and 64 of foreign, or about 57 of native to every 100 of foreign.

Seventy-nine of the whole number were of persons of 40 years years of age and over.

In the age period of from 5 to 40, there were but 20 decedents from diseases of the liver. There was one decedent of unstated age.

The mortality from such diseases does not depend to any marked extent upon the influence of season.

Table LXXXII will present various facts relating to diseases of the liver during thirty-five years.

## TABLE LXXXII.

*Mortality from Diseases of the Liver, 1866 to 1900, inclusive.*

| YEARS.            | Number of Deaths. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|-------------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                   |                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 1866-1870... ..   | 201               | 1.31      | 113    | 88       | 118        | 83       | 12                      | 11           | 36              | 47                  | 70               | 22                 |
| 1871-1875.....    | 202               | .98       | 91     | 111      | 119        | 83       | 18                      | 14           | 12              | 56                  | 88               | 11                 |
| 1876.....         | 45                | 1.09      | 26     | 19       | 27         | 18       | 1                       | 5            | 5               | 11                  | 18               | 5                  |
| 1877.....         | 52                | 1.17      | 23     | 29       | 31         | 21       | 1                       | .....        | 7               | 16                  | 24               | 4                  |
| 1878.....         | 49                | 1.10      | 25     | 24       | 32         | 17       | 8                       | 1            | 6               | 14                  | 18               | 2                  |
| 1879.....         | 52                | 1.24      | 27     | 25       | 31         | 21       | 4                       | 4            | 2               | 14                  | 22               | 6                  |
| 1880.....         | 58                | 1.27      | 29     | 29       | 40         | 18       | 4                       | 3            | 8               | 15                  | 25               | 3                  |
| 1876-1880.....    | 256               | 1.15      | 130    | 126      | 161        | 95       | 18                      | 13           | 28              | 70                  | 107              | 20                 |
| 1881.....         | 46                | .92       | 30     | 16       | 21         | 25       | 2                       | 2            | 6               | 8                   | 24               | 4                  |
| 1882.....         | 62                | 1.22      | 34     | 28       | 36         | 26       | 3                       | 5            | 10              | 17                  | 24               | 3                  |
| 1883.....         | 51                | .94       | 27     | 24       | 20         | 31       | 5                       | 6            | 4               | 16                  | 18               | 2                  |
| 1884.....         | 48                | .93       | 22     | 26       | 23         | 25       | 5                       | 3            | 5               | 2                   | 31               | 2                  |
| 1885.....         | 61                | 1.13      | 24     | 37       | 32         | 29       | 2                       | 6            | 6               | 21                  | 24               | 2                  |
| 1881-1885.....    | 268               | 1.03      | 137    | 131      | 132        | 136      | 17                      | 22           | 31              | 64                  | 121              | 13                 |
| 1886.....         | 54                | .92       | 29     | 25       | 26         | 28       | 4                       | 4            | 4               | 14                  | 28               | .....              |
| 1887.....         | 86                | 1.35      | 40     | 46       | 38         | 48       | 3                       | 5            | 3               | 31                  | 39               | 5                  |
| 1888.....         | 68                | 1.03      | 38     | 30       | 36         | 32       | 1                       | 5            | 6               | 28                  | 26               | 2                  |
| 1889.....         | 70                | 1.42      | 30     | 40       | 31         | 39       | 1                       | 2            | 10              | 26                  | 29               | 2                  |
| 1890.....         | 65                | .94       | 42     | 23       | 29         | 36       | 3                       | 4            | 6               | 21                  | 26               | 5                  |
| 1886-1890.....    | 313               | 1.07      | 179    | 164      | 160        | 183      | 12                      | 20           | 29              | 120                 | 148              | 14                 |
| 1891.....         | 81                | 1.23      | 41     | 40       | 28         | 53       | 3                       | 4            | 9               | 26                  | 38               | 1                  |
| 1892.....         | 89                | 1.20      | 39     | 50       | 31         | 55       | 3                       | 5            | 4               | 27                  | 45               | 5                  |
| 1893.....         | 72                | .97       | 43     | 29       | 30         | 42       | 4                       | 8            | 6               | 15                  | 36               | 3                  |
| 1894.....         | 93                | 1.30      | 43     | 50       | 42         | 51       | 2                       | 9            | 9               | 42                  | 24               | 7                  |
| 1895.....         | 81                | 1.07      | 43     | 38       | 28         | 53       | .....                   | 6            | 10              | 27                  | 31               | 7                  |
| 1891-1895.....    | 416               | 1.15      | 209    | 207      | 162        | 254      | 12                      | 32           | 38              | 137                 | 174              | 23                 |
| 1896.....         | 110               | 1.47      | 56     | 54       | 37         | 73       | 3                       | 7            | 6               | 40                  | 48               | 6                  |
| 1897.....         | 58                | .82       | 31     | 27       | 22         | 36       | 1                       | 3            | 6               | 15                  | 25               | 5                  |
| 1898.....         | 91                | 1.32      | 41     | 50       | 31         | 60       | 3                       | 7            | 6               | 26                  | 41               | 8                  |
| 1899.....         | 92                | 1.23      | 48     | 44       | 22         | 70       | 5                       | 6            | 15              | 25                  | 35               | 6                  |
| 1900.....         | 100               | 1.13      | 56     | 44       | 36         | 64       | .....                   | 10           | 7               | 29                  | 47               | 7                  |
| 1896-1900.....    | 451               | 1.19      | 332    | 219      | 148        | 303      | 15                      | 33           | 40              | 135                 | 196              | 32                 |
| Total, 35 years.. | 2,137             | 1.12      | 1,091  | 1,046    | 1,000      | 1,137    | 104                     | 148          | 214             | 629                 | 904              | 138                |

\* Exclusive of Providence city.

## DROPSY.

We have no deaths recorded in 1900, or in 1899, from dropsy.

As it has been repeatedly observed in previous reports that although this term is a misnomer in a large measure, and conveys no definite idea of the pathological condition preceding the dropsical accumulation, it has been, nevertheless, the only cause returned; and as it has been in some instances the apparently immediate cause of death, it was given a place in the Registration Reports; and as a frequent result and concomitant of diseases of the kidneys and liver, it has been placed in comparison with them in the following Table.

It will be noticed that the number of deaths from dropsy, for 1898, was but three. In 1899 and 1900 there has been none so accepted as a cause. This is explained by the fact that the diagnosis of dropsy was not accepted as a cause but as a symptom. In these cases strenuous effort was made by the Registrar to ascertain the cause of the dropsy from the physician, in every case so reported. The large number returned from that cause was distributed under the headings of heart disease, liver disease, or disease of the kidneys, as finally ascertained from the physician in charge, or if not satisfactory has been placed under "cause unknown." These groups of diseases are therefore correspondingly increased over the numbers of previous years.

An examination of Table LXXXIII will serve as evidence of the greater carefulness and better judgment of the medical practitioners of the present time, inasmuch as the causes of dropsy are now better understood and reported, and for that reason the number of deaths attributed to dropsy is very small.

## TABLE LXXXIII.

*Mortality from Kidney and Liver Diseases compared with Dropsy (so returned) for thirty-five years, 1866-1900.*

| YEARS.       | DEATHS FROM KIDNEY DISEASES. |        |          | DEATHS FROM LIVER DISEASES. |        |          | TOTAL DEATHS FROM KIDNEY AND LIVER DISEASES. |        |          | DEATHS FROM DROPSY. |        |          | Diminution of Dropsy in reference to Kidney and Liver Diseases. | Percentage of Dropsy to all. |
|--------------|------------------------------|--------|----------|-----------------------------|--------|----------|----------------------------------------------|--------|----------|---------------------|--------|----------|-----------------------------------------------------------------|------------------------------|
|              | Total.                       | Males. | Females. | Total.                      | Males. | Females. | Total.                                       | Males. | Females. | Total.              | Males. | Females. |                                                                 |                              |
| 1866-1870... | 135                          | 91     | 41       | 201                         | 113    | 88       | 336                                          | 207    | 129      | 302                 | 143    | 159      | -34                                                             | 1.96                         |
| 1871-1875... | 295                          | 167    | 128      | 202                         | 91     | 111      | 497                                          | 258    | 239      | 294                 | 130    | 164      | -203                                                            | 1.43                         |
| 1876.....    | 50                           | 22     | 28       | 45                          | 26     | 19       | 95                                           | 48     | 47       | 70                  | 35     | 35       | -25                                                             | 1.70                         |
| 1877.....    | 67                           | 40     | 27       | 52                          | 23     | 29       | 119                                          | 63     | 56       | 64                  | 25     | 39       | -55                                                             | 1.44                         |
| 1878.....    | 80                           | 50     | 30       | 49                          | 25     | 24       | 129                                          | 75     | 54       | 44                  | 23     | 21       | -85                                                             | .99                          |
| 1879.....    | 79                           | 51     | 28       | 52                          | 27     | 25       | 131                                          | 78     | 53       | 54                  | 28     | 26       | -77                                                             | 1.21                         |
| 1880.....    | 91                           | 52     | 39       | 58                          | 29     | 29       | 149                                          | 81     | 68       | 46                  | 22     | 24       | -103                                                            | .95                          |
| 1876-1880... | 367                          | 215    | 152      | 256                         | 130    | 126      | 623                                          | 345    | 278      | 278                 | 133    | 145      | -345                                                            | 1.25                         |
| 1881.....    | 79                           | 40     | 39       | 46                          | 30     | 16       | 125                                          | 70     | 55       | 48                  | 23     | 25       | -77                                                             | .96                          |
| 1882.....    | 86                           | 50     | 36       | 62                          | 34     | 28       | 148                                          | 84     | 64       | 52                  | 23     | 29       | -96                                                             | 1.02                         |
| 1883.....    | 129                          | 72     | 57       | 51                          | 27     | 24       | 180                                          | 99     | 81       | 47                  | 21     | 26       | -133                                                            | .89                          |
| 1884.....    | 118                          | 53     | 65       | 48                          | 22     | 26       | 166                                          | 75     | 91       | 40                  | 20     | 20       | -126                                                            | .78                          |
| 1885.....    | 159                          | 92     | 67       | 61                          | 24     | 37       | 220                                          | 116    | 104      | 44                  | 30     | 14       | -176                                                            | .82                          |
| 1881-1885... | 571                          | 307    | 264      | 268                         | 137    | 131      | 839                                          | 444    | 395      | 231                 | 117    | 114      | -608                                                            | .89                          |
| 1886.....    | 155                          | 85     | 70       | 54                          | 29     | 25       | 209                                          | 114    | 95       | 45                  | 18     | 27       | -161                                                            | .77                          |
| 1887.....    | 169                          | 92     | 77       | 86                          | 40     | 46       | 255                                          | 132    | 123      | 35                  | 14     | 21       | -220                                                            | .55                          |
| 1888.....    | 213                          | 102    | 111      | 68                          | 38     | 30       | 281                                          | 140    | 141      | 47                  | 18     | 29       | -234                                                            | .71                          |
| 1889.....    | 210                          | 119    | 91       | 70                          | 30     | 40       | 280                                          | 149    | 131      | 42                  | 14     | 28       | -238                                                            | .67                          |
| 1890.....    | 229                          | 116    | 113      | 65                          | 42     | 23       | 294                                          | 158    | 136      | 44                  | 18     | 26       | -250                                                            | .63                          |
| 1886-1890... | 976                          | 514    | 462      | 343                         | 179    | 164      | 1,319                                        | 693    | 626      | 213                 | 82     | 131      | -1106                                                           | .67                          |
| 1891.....    | 215                          | 123    | 92       | 81                          | 41     | 40       | 326                                          | 161    | 162      | 35                  | 8      | 27       | -291                                                            | .52                          |
| 1892.....    | 258                          | 135    | 123      | 89                          | 39     | 50       | 347                                          | 174    | 173      | 39                  | 17     | 22       | -308                                                            | .53                          |
| 1893.....    | 302                          | 151    | 148      | 72                          | 43     | 29       | 374                                          | 197    | 177      | 39                  | 11     | 28       | -335                                                            | .52                          |
| 1894.....    | 313                          | 152    | 161      | 93                          | 43     | 50       | 406                                          | 195    | 211      | 7                   | 3      | 4        | -399                                                            | .40                          |
| 1895.....    | 341                          | 176    | 165      | 81                          | 43     | 38       | 422                                          | 219    | 203      | 4                   | 1      | 3        | -418                                                            | .05                          |
| 1891-1895... | 1,159                        | 740    | 719      | 416                         | 209    | 207      | 1,375                                        | 949    | 926      | 121                 | 40     | 81       | -1751                                                           | .31                          |
| 1896.....    | 395                          | 209    | 186      | 110                         | 56     | 54       | 505                                          | 265    | 240      | 2                   | 1      | 1        | -503                                                            | .03                          |
| 1897.....    | 387                          | 198    | 189      | 58                          | 31     | 27       | 445                                          | 229    | 216      | 2                   | 1      | 1        | -443                                                            | .03                          |
| 1898.....    | 471                          | 228    | 243      | 91                          | 41     | 50       | 562                                          | 269    | 293      | 3                   | 1      | 2        | -559                                                            | .04                          |
| 1899.....    | 477                          | 241    | 236      | 92                          | 48     | 44       | 569                                          | 289    | 280      | .....               | .....  | .....    | .....                                                           | .....                        |
| 1900.....    | 516                          | 240    | 276      | 100                         | 56     | 44       | 616                                          | 296    | 320      | .....               | .....  | .....    | .....                                                           | .....                        |
| 1896-1900... | 2,216                        | 1,116  | 1,100    | 451                         | 232    | 219      | 2,697                                        | 1,348  | 1,349    | 7                   | 3      | 4        | -1565                                                           | .02                          |
| Total 35 yrs | 6,019                        | 3,153  | 2,866    | 2,137                       | 1,091  | 1,046    | 8,186                                        | 4,244  | 3,942    | 1,456               | 651    | 805      | -5532                                                           | .76                          |

## MEASLES.

There were 185 decedents from measles as a cause of death in 1900. The number is 138 larger than in the preceding year.

This number represents 2.10 per cent. of all causes, and a proportion of .43 to every 1,000 of the population.

Of the 185, there were 87 males and 98 females. The sexes, as a rule, seem to be nearly equally susceptible to measles and to mortality therefrom.

Of parentage there were 79 of native and 106 of foreign.

During the last ten years the proportion of mortality from measles has been about 53 of native to every 100 of foreign parentage.

During 1990 the number of decedents under 5 years of age was 153.

The number in the different divisions of the State may be found in Table LXXXIV.

TABLE LXXXIV.

*Mortality in the State from Measles, 1866 to 1900, inclusive.*

| YEARS.             | Number of Deaths. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|--------------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                    |                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 5 years, 1866-1870 | 92                | .60       | 44     | 48       | 26         | 66       | 6                       | 4            | 12              | 35                  | 25               | .....              |
| 5 years, 1871-1875 | 102               | .50       | 13     | 59       | 53         | 49       | 5                       | 12           | 7               | 39                  | 35               | 4                  |
| 1876.....          | 4                 | .10       | .....  | 4        | 1          | 3        | .....                   | .....        | .....           | 4                   | .....            | .....              |
| 1877.....          | 11                | .25       | 3      | 8        | 2          | 9        | .....                   | .....        | 1               | 8                   | 2                | .....              |
| 1878.....          | 81                | 1.82      | 39     | 42       | 25         | 56       | 2                       | 3            | .....           | 26                  | 50               | .....              |
| 1879.....          | .....             | .....     | .....  | .....    | .....      | .....    | .....                   | .....        | .....           | .....               | .....            | .....              |
| 1880.....          | 9                 | .20       | 3      | 6        | 2          | 7        | .....                   | .....        | .....           | 6                   | 3                | .....              |
| 1876-1880.....     | 105               | .47       | 45     | 60       | 30         | 75       | 2                       | 3            | 1               | 41                  | 55               | .....              |
| 1881.....          | 37                | .74       | 17     | 20       | 15         | 22       | .....                   | 1            | 2               | 9                   | 25               | .....              |
| 1882.....          | 6                 | .12       | 1      | 5        | .....      | 6        | .....                   | .....        | .....           | 2                   | 4                | .....              |
| 1883.....          | 14                | .27       | 11     | 3        | 9          | 5        | .....                   | 1            | .....           | 3                   | 8                | 2                  |
| 1884.....          | 18                | .35       | 10     | 8        | 5          | 13       | 1                       | 6            | 1               | 3                   | 7                | .....              |
| 1885.....          | 45                | .84       | 27     | 18       | 19         | 26       | .....                   | 7            | 2               | 27                  | 8                | 1                  |
| 1881-1885.....     | 120               | .46       | 66     | 54       | 48         | 72       | 1                       | 15           | 5               | 44                  | 52               | 3                  |
| 1886.....          | 18                | .30       | 11     | 7        | 4          | 14       | .....                   | 5            | .....           | 4                   | 9                | .....              |
| 1887.....          | 132               | 2.08      | 69     | 63       | 57         | 75       | .....                   | 5            | 8               | 26                  | 90               | 3                  |
| 1888.....          | 11                | .22       | 5      | 6        | 3          | 8        | .....                   | 2            | .....           | 7                   | 2                | .....              |
| 1889.....          | 29                | .47       | 15     | 14       | 10         | 19       | .....                   | 8            | .....           | 7                   | 11               | .....              |
| 1890.....          | 92                | 1.32      | 45     | 47       | 42         | 50       | 2                       | 10           | .....           | 41                  | 31               | 8                  |
| 1886-1890.....     | 282               | .88       | 145    | 137      | 116        | 166      | 2                       | 30           | 8               | 85                  | 146              | 11                 |
| 1891.....          | 12                | .18       | 7      | 5        | 4          | 8        | 1                       | 2            | 2               | 3                   | 3                | 1                  |
| 1892.....          | 28                | .38       | 14     | 14       | 10         | 18       | .....                   | 2            | 4               | 11                  | 11               | .....              |
| 1893.....          | 100               | 1.34      | 56     | 44       | 33         | 67       | .....                   | 11           | .....           | 22                  | 64               | 3                  |
| 1894.....          | 9                 | .12       | 4      | 5        | 3          | 6        | .....                   | .....        | 2               | 2                   | 5                | .....              |
| 1895.....          | 53                | .70       | 24     | 29       | 11         | 42       | .....                   | 5            | .....           | 8                   | 10               | .....              |
| 1891-1895.....     | 202               | .54       | 105    | 97       | 61         | 141      | 1                       | 20           | 8               | 46                  | 123              | 4                  |
| 1896.....          | 58                | .77       | 28     | 30       | 22         | 36       | .....                   | 6            | 3               | 28                  | 19               | 2                  |
| 1897.....          | 33                | .46       | 21     | 12       | 11         | 22       | 5                       | 1            | 1               | 8                   | 18               | .....              |
| 1898.....          | 18                | .26       | 11     | 7        | 3          | 15       | .....                   | .....        | 1               | 12                  | 4                | 1                  |
| 1899.....          | 47                | .63       | 22     | 25       | 12         | 35       | .....                   | 5            | .....           | 13                  | 27               | 2                  |
| 1900.....          | 185               | 2.10      | 87     | 98       | 79         | 106      | 4                       | 25           | .....           | 48                  | 99               | 9                  |
| 1896-1900.....     | 341               | .90       | 169    | 172      | 127        | 214      | 9                       | 37           | 5               | 109                 | 167              | 11                 |
| Total, 35 years..  | 1,244             | .61       | 617    | 627      | 461        | 783      | 26                      | 121          | 46              | 402                 | 613              | 36                 |

\* Exclusive of Providence city.



## OLD AGE.

The number of deaths, in 1900, attributed to old age as a cause, was 250. This is 22 more than in 1899.

This number represents 2.83 per cent. of all causes, and a proportion of .59 to every 1,000 of the population.

Of the 250 decedents from old age, 96 were males, and 154 were females, or about 62 males to every 100 females.

Of the parentage of the 250, there were 150 of native and 100 of foreign parentage.

The following Table will present the statistics of deaths in Rhode Island from old age for thirty-five years:

TABLE LXXXV.

*Mortality in the State from Old Age, 1866 to 1900, inclusive.*

| YEARS.              | Number of Deaths. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|---------------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                     |                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 5 years, 1866-1870. | 998               | 6.48      | 306    | 632      | 761        | 284      | 55                      | 102          | 157             | 233                 | 267              | 134                |
| 1871-1875.....      | 1,158             | 5.64      | 467    | 691      | 833        | 325      | 61                      | 103          | 161             | 332                 | 348              | 153                |
| 1876.....           | 241               | 6.18      | 107    | 134      | 177        | 64       | 12                      | 14           | 38              | 65                  | 71               | 41                 |
| 1877.....           | 213               | 5.00      | 96     | 117      | 145        | 68       | 12                      | 23           | 29              | 57                  | 63               | 29                 |
| 1878.....           | 222               | 5.25      | 84     | 138      | 172        | 50       | 15                      | 8            | 32              | 76                  | 61               | 30                 |
| 1879.....           | 220               | 5.22      | 82     | 138      | 152        | 68       | 14                      | 19           | 26              | 69                  | 67               | 25                 |
| 1880.....           | 273               | 5.95      | 121    | 152      | 186        | 87       | 12                      | 20           | 34              | 90                  | 73               | 44                 |
| 1876-1880.....      | 1,169             | 5.24      | 490    | 679      | 832        | 337      | 65                      | 84           | 159             | 357                 | 335              | 169                |
| 1881.....           | 247               | 5.29      | 101    | 146      | 167        | 80       | 12                      | 24           | 36              | 93                  | 72               | 10                 |
| 1882.....           | 283               | 5.89      | 110    | 173      | 190        | 93       | 20                      | 25           | 40              | 106                 | 79               | 13                 |
| 1883.....           | 275               | 5.22      | 105    | 170      | 184        | 91       | 17                      | 18           | 44              | 91                  | 84               | 21                 |
| 1884.....           | 293               | 5.68      | 101    | 192      | 196        | 97       | 16                      | 20           | 39              | 106                 | 86               | 26                 |
| 1885.....           | 267               | 4.95      | 86     | 181      | 183        | 84       | 9                       | 32           | 47              | 87                  | 70               | 22                 |
| 1881-1885.....      | 1,365             | 5.27      | 503    | 862      | 920        | 445      | 74                      | 119          | 206             | 483                 | 391              | 92                 |
| 1886.....           | 276               | 4.69      | 101    | 175      | 181        | 95       | 16                      | 24           | 36              | 100                 | 73               | 27                 |
| 1887.....           | 278               | 4.38      | 103    | 175      | 167        | 111      | 17                      | 19           | 29              | 109                 | 76               | 28                 |
| 1888.....           | 290               | 4.35      | 108    | 182      | 198        | 92       | 16                      | 26           | 25              | 124                 | 64               | 35                 |
| 1889.....           | 227               | 3.62      | 75     | 152      | 136        | 91       | 10                      | 23           | 23              | 73                  | 71               | 27                 |
| 1890.....           | 198               | 2.87      | 72     | 126      | 123        | 75       | 16                      | 19           | 19              | 59                  | 63               | 22                 |
| 1886-1890.....      | 1,269             | 3.97      | 459    | 810      | 805        | 464      | 75                      | 111          | 132             | 465                 | 347              | 139                |
| 1891.....           | 185               | 2.80      | 83     | 102      | 121        | 64       | 18                      | 16           | 26              | 65                  | 41               | 19                 |
| 1892.....           | 256               | 3.46      | 95     | 161      | 168        | 88       | 9                       | 24           | 29              | 91                  | 71               | 32                 |
| 1893.....           | 183               | 2.44      | 72     | 111      | 113        | 70       | 8                       | 16           | 19              | 33                  | 92               | 15                 |
| 1894.....           | 187               | 2.61      | 60     | 127      | 109        | 78       | 12                      | 21           | 23              | 64                  | 51               | 16                 |
| 1895.....           | 197               | 2.61      | 82     | 115      | 105        | 92       | 17                      | 17           | 16              | 87                  | 51               | 9                  |
| 1891-1895.....      | 1,008             | 2.78      | 392    | 616      | 616        | 392      | 64                      | 94           | 113             | 310                 | 306              | 91                 |
| 1896.....           | 206               | 2.74      | 84     | 122      | 112        | 94       | 8                       | 23           | 13              | 89                  | 57               | 16                 |
| 1897.....           | 159               | 2.21      | 51     | 108      | 96         | 63       | 7                       | 9            | 6               | 69                  | 57               | 11                 |
| 1898.....           | 205               | 2.97      | 86     | 119      | 135        | 70       | 9                       | 11           | 30              | 79                  | 56               | 20                 |
| 1899.....           | 228               | 3.06      | 85     | 143      | 148        | 80       | 10                      | 16           | 37              | 71                  | 72               | 22                 |
| 1900.....           | 250               | 2.83      | 96     | 154      | 150        | 100      | 15                      | 34           | 42              | 72                  | 65               | 22                 |
| 1896-1900.....      | 1,048             | 2.77      | 402    | 646      | 644        | 407      | 49                      | 93           | 128             | 380                 | 307              | 91                 |
| Total, 35 years...  | 8,015             | 4.22      | 3,079  | 4,936    | 5,411      | 2,604    | 443                     | 706          | 1,056           | 2,640               | 2,304            | 869                |

\* Exclusive of Providence city.

## PERITONITIS.

There were 23 deaths which were caused by peritonitis during 1900.

This number represents .26 per cent. of all causes, and a proportion of .05 to every 1,000 of the population.

*Sex.*—Of the 23 decedents from peritonitis there were 8 males and 15 females, a proportion of 53 males to every 100 females.

*Parentage.*—There were 4 of native parentage and 19 of foreign, or a ratio of 21 native to every 100 of foreign parentage.

## PNEUMONIA.

There were 966 decedents from pneumonia in 1900. The number is 280 larger than in 1899.

This number represents 10.9 per cent. of all causes, and a proportion of 2.3 to every 1,000 of the population.

*Sex.*—Of the 966 decedents from pneumonia, and including congestion of the lungs, 479 were males and 487 were females; or about 102 females to every 100 males.

*Parentage.*—By parentage, there were 373 of native and 593 of foreign parentage. The proportion of decedents from pneumonia was about 63 of native to each 100 of foreign parentage.

*Season.*—There were 645, or over 66 per cent., of the deaths that occurred during the first four months of the year. The largest mortality by months was 209 in April, 173 in March, 135 in February, and 128 in January.

Pneumonia, as a cause of death, has increased in the ratio to whole number of deaths, during the last thirty-five years, from an average of 6.3 per cent., during the first ten years, to an average of 9.2 per cent. during the last ten, including 1900.

The following Table presents, for each of the last thirty-five years, the number and the percentage, with the sex and the parentage of the decedents from pneumonia, and the number in each year, in each division of the State:

## TABLE LXXXVI.

*Mortality in the State from Pneumonia, 1866 to 1900, inclusive.*

| YEARS.             | Number of Deaths. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|--------------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                    |                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County*. | Providence City. | Washington County. |
| 5 years, 1866-1870 | 928               | 6.0       | 467    | 461      | 556        | 372      | 43                      | 56           | 66              | 287                 | 407              | 69                 |
| 1871-1875.....     | 1,331             | 6.5       | 667    | 664      | 783        | 548      | 54                      | 71           | 62              | 385                 | 662              | 97                 |
| 1876.....          | 339               | 8.2       | 164    | 175      | 162        | 177      | 13                      | 23           | 16              | 97                  | 163              | 27                 |
| 1877.....          | 226               | 5.1       | 104    | 122      | 127        | 99       | 10                      | 7            | 14              | 81                  | 98               | 16                 |
| 1878.....          | 317               | 7.1       | 143    | 174      | 176        | 141      | 10                      | 11           | 18              | 110                 | 140              | 28                 |
| 1879.....          | 311               | 7.4       | 148    | 163      | 163        | 148      | 7                       | 15           | 15              | 103                 | 156              | 15                 |
| 1880.....          | 364               | 7.9       | 180    | 184      | 177        | 187      | 26                      | 16           | 18              | 92                  | 192              | 20                 |
| 1876-1880.....     | 1,557             | 7.0       | 739    | 818      | 805        | 752      | 66                      | 72           | 81              | 483                 | 749              | 106                |
| 1881.....          | 327               | 6.5       | 177    | 150      | 190        | 137      | 10                      | 23           | 17              | 81                  | 174              | 22                 |
| 1882.....          | 314               | 7.2       | 178    | 166      | 163        | 181      | 10                      | 22           | 24              | 61                  | 176              | 21                 |
| 1883.....          | 400               | 7.8       | 192    | 208      | 198        | 202      | 19                      | 21           | 34              | 108                 | 204              | 14                 |
| 1884.....          | 363               | 7.1       | 167    | 196      | 192        | 171      | 10                      | 13           | 17              | 125                 | 172              | 26                 |
| 1885.....          | 465               | 8.6       | 214    | 251      | 271        | 194      | 15                      | 20           | 33              | 151                 | 227              | 19                 |
| 1881-1885.....     | 1,899             | 7.3       | 928    | 971      | 1,014      | 885      | 64                      | 99           | 125             | 556                 | 953              | 102                |
| 1886.....          | 481               | 8.2       | 232    | 249      | 234        | 247      | 17                      | 29           | 37              | 161                 | 209              | 28                 |
| 1887.....          | 488               | 7.7       | 260    | 228      | 227        | 261      | 13                      | 27           | 39              | 142                 | 227              | 40                 |
| 1888.....          | 508               | 7.7       | 274    | 234      | 227        | 281      | 16                      | 37           | 29              | 171                 | 219              | 36                 |
| 1889.....          | 483               | 7.7       | 255    | 228      | 213        | 270      | 18                      | 37           | 29              | 169                 | 208              | 22                 |
| 1890.....          | 569               | 8.2       | 288    | 281      | 247        | 322      | 16                      | 36           | 30              | 206                 | 246              | 35                 |
| 1886-1890.....     | 2,529             | 7.9       | 1,309  | 1,220    | 1,148      | 1,381    | 80                      | 166          | 164             | 849                 | 1,109            | 161                |
| 1891.....          | 568               | 8.5       | 270    | 298      | 247        | 321      | 17                      | 40           | 70              | 183                 | 232              | 26                 |
| 1892.....          | 655               | 8.8       | 335    | 320      | 265        | 390      | 18                      | 57           | 52              | 216                 | 277              | 35                 |
| 1893.....          | 776               | 10.4      | 412    | 364      | 319        | 457      | 18                      | 42           | 49              | 232                 | 392              | 43                 |
| 1894.....          | 665               | 9.3       | 344    | 321      | 305        | 360      | 18                      | 47           | 46              | 224                 | 276              | 54                 |
| 1895.....          | 685               | 9.1       | 340    | 345      | 289        | 396      | 28                      | 49           | 25              | 243                 | 292              | 48                 |
| 1891-1895.....     | 3,349             | 9.2       | 1,701  | 1,648    | 1,425      | 1,924    | 99                      | 235          | 242             | 1,098               | 1,469            | 206                |
| 1896.....          | 669               | 8.9       | 366    | 303      | 274        | 395      | 23                      | 45           | 39              | 263                 | 256              | 43                 |
| 1897.....          | 635               | 8.9       | 337    | 298      | 268        | 367      | 25                      | 33           | 36              | 254                 | 251              | 36                 |
| 1898.....          | 542               | 7.8       | 299    | 243      | 218        | 324      | 8                       | 39           | 41              | 198                 | 241              | 15                 |
| 1899.....          | 686               | 9.2       | 357    | 329      | 317        | 369      | 12                      | 66           | 62              | 204                 | 314              | 28                 |
| 1900.....          | 966               | 10.9      | 479    | 487      | 373        | 593      | 25                      | 90           | 43              | 323                 | 451              | 34                 |
| 1896-1900.....     | 3,498             | 9.3       | 1,838  | 1,660    | 1,450      | 2,048    | 98                      | 273          | 221             | 1,242               | 1,513            | 156                |
| Total, 35 years..  | 15,091            | 7.9       | 7,649  | 7,442    | 7,181      | 7,910    | 499                     | 972          | 964             | 4,900               | 6,862            | 897                |

\* Exclusive of Providence city.

TABLE LXXXVII.

*Exhibiting the Number of Decedents from Pneumonia, in each of the several Periods of Life, during each of the last thirty-five years, from 1866 to 1900, inclusive.*

| YEARS.               | PERIODS OF LIFE. |          |           |           |           |           |           |           |           |           |                             |
|----------------------|------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------------------|
|                      | Under 5.         | 5 to 10. | 10 to 15. | 15 to 20. | 20 to 30. | 30 to 40. | 40 to 50. | 50 to 60. | 60 to 70. | 70 to 80. | 80 and over.<br>Not stated. |
| 1866.....            | 57               | 4        | 4         | 5         | 12        | 10        | 14        | 21        | 25        | 32        | 9 .....                     |
| 1867.....            | 57               | 9        | 2         | 3         | 10        | 11        | 13        | 16        | 25        | 13        | 12 1                        |
| 1868.....            | 70               | 4        | 3         | 3         | 15        | 8         | 16        | 18        | 19        | 27        | 13 .....                    |
| 1869.....            | 64               | 11       | 1         | 2         | 11        | 12        | 9         | 23        | 25        | 16        | 11 .....                    |
| 1870.....            | 84               | 6        | 5         | 4         | 6         | 7         | 8         | 14        | 20        | 19        | 8 1                         |
| 1871.....            | 71               | 7        | 2         | 7         | 10        | 17        | 16        | 16        | 35        | 17        | 19 1                        |
| 1872.....            | 83               | 5        | 1         | 7         | 17        | 20        | 19        | 22        | 24        | 19        | 11 1                        |
| 1873.....            | 105              | 4        | 8         | 3         | 10        | 14        | 16        | 17        | 24        | 23        | 10 .....                    |
| 1874.....            | 76               | 9        | 4         | 6         | 17        | 17        | 25        | 21        | 40        | 27        | 8 .....                     |
| 1875.....            | 120              | 9        | 3         | 8         | 22        | 30        | 35        | 39        | 61        | 43        | 28 2                        |
| 1876.....            | 116              | 5        | 4         | 3         | 20        | 20        | 32        | 35        | 48        | 39        | 17 .....                    |
| 1877.....            | 79               | 2        | .....     | 7         | 15        | 15        | 24        | 27        | 22        | 24        | 9 2                         |
| 1878.....            | 115              | 9        | 4         | 10        | 14        | 17        | 28        | 20        | 42        | 45        | 13 .....                    |
| 1879.....            | 102              | 8        | 1         | 3         | 14        | 27        | 26        | 35        | 38        | 38        | 19 .....                    |
| 1880.....            | 95               | 18       | 3         | 16        | 14        | 33        | 37        | 46        | 47        | 43        | 12 .....                    |
| 1881.....            | 102              | 4        | 2         | 5         | 15        | 22        | 26        | 45        | 48        | 21        | 26 1                        |
| 1882.....            | 71               | 3        | 4         | 14        | 22        | 36        | 49        | 33        | 41        | 46        | 21 4                        |
| 1883.....            | 88               | 15       | 2         | 13        | 32        | 33        | 40        | 53        | 49        | 46        | 27 2                        |
| 1884.....            | 103              | 14       | 5         | 11        | 23        | 34        | 24        | 32        | 53        | 37        | 23 4                        |
| 1885.....            | 121              | 9        | 10        | 8         | 23        | 29        | 50        | 49        | 76        | 59        | 29 2                        |
| 1886.....            | 111              | 10       | 7         | 19        | 32        | 35        | 50        | 58        | 74        | 55        | 30 .....                    |
| 1887.....            | 132              | 15       | 7         | 7         | 32        | 43        | 51        | 56        | 64        | 53        | 28 .....                    |
| 1888.....            | 103              | 20       | 5         | 15        | 49        | 48        | 61        | 62        | 70        | 54        | 21 .....                    |
| 1889.....            | 120              | 14       | 3         | 20        | 27        | 36        | 51        | 57        | 77        | 47        | 31 .....                    |
| 1890.....            | 161              | 7        | 10        | 12        | 46        | 55        | 55        | 55        | 79        | 54        | 33 2                        |
| 1891.....            | 126              | 10       | 4         | 11        | 42        | 54        | 60        | 70        | 84        | 70        | 37 .....                    |
| 1892.....            | 139              | 10       | 9         | 10        | 39        | 69        | 75        | 74        | 110       | 71        | 44 5                        |
| 1893.....            | 176              | 25       | 8         | 17        | 49        | 68        | 96        | 115       | 102       | 70        | 50 .....                    |
| 1894.....            | 169              | 19       | 9         | 18        | 47        | 56        | 67        | 72        | 78        | 77        | 52 1                        |
| 1895.....            | 172              | 16       | 9         | 20        | 49        | 56        | 77        | 66        | 94        | 77        | 49 .....                    |
| 1896.....            | 220              | 20       | 7         | 17        | 33        | 55        | 56        | 71        | 83        | 66        | 40 1                        |
| 1897.....            | 191              | 14       | 10        | 17        | 33        | 46        | 58        | 58        | 73        | 75        | 57 .....                    |
| 1898.....            | 202              | 11       | 4         | 9         | 23        | 39        | 40        | 58        | 66        | 51        | 36 .....                    |
| 1899.....            | 238              | 14       | 6         | 19        | 38        | 53        | 50        | 62        | 78        | 74        | 53 1                        |
| 1900.....            | 238              | 24       | 7         | 21        | 53        | 77        | 86        | 105       | 109       | 90        | 54 2                        |
| Total, 35 years..... | 4,380            | 381      | 173       | 370       | 914       | 1,202     | 1,440     | 1,621     | 2,003     | 1,631     | 940 33                      |

*Age.*—Of the decedents from pneumonia, during the period of thirty-five years, 29 per cent. were under 5 years of age. Of over fifty years of age the number of decedents was 41 per cent. of the whole number. The following summary will present the percentages for 1900, in round numbers:

|                                                   |              |
|---------------------------------------------------|--------------|
| Under five years of age.....                      | 35 per cent. |
| Five years and under twenty, and not stated ..... | 6 per cent.  |
| Twenty years and under fifty.....                 | 22 per cent. |
| Fifty years and over.....                         | 37 per cent. |

### SCARLET FEVER.

The number of deaths returned as having been caused by scarlet fever, in 1900, was 34. The number is 5 more than in 1899.

This number represents .3 per cent. of all causes, and a proportion of .08 to every 1,000 of the population.

*Sex.*—Of the 34 decedents from scarlet fever, 24 were males and 10 were females, or 42 females to every 100 males.

*Parentage.*—There were 22 of native parentage and 12 of foreign, a proportion of 54 of foreign parentage to every 100 of native.

The following Table will present the statistics of scarlet fever for the last forty-five years, from 1856 to 1900, inclusive, the number and percentage and sex of the decedents from scarlet fever, and the number from scarlet fever in each division of the State. It also shows, from 1866 to 1900, inclusive, the parentage of the decedents from scarlet fever:



TABLE LXXXVIII.

*Mortality in the State from Scarlet Fever, 1856 to 1900, inclusive.*

| YEARS.              | Number of Deaths. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|---------------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                     |                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 10 yrs., 1856-1865. | 1,440             | 5.2       | 700    | 740      | +          | +        | 57                      | 79           | 191             | 414                 | 634              | 65                 |
| 1866-1870.....      | 496               | 3.2       | 231    | 265      | 210        | 286      | 26                      | 32           | 27              | 142                 | 236              | 33                 |
| 1871-1875.....      | 1,053             | 5.1       | 503    | 550      | 513        | 540      | 40                      | 53           | 51              | 302                 | 534              | 78                 |
| 1876.....           | 80                | 1.9       | 34     | 46       | 42         | 38       | 3                       | 2            | 7               | 21                  | 35               | 12                 |
| 1877.....           | 62                | 1.4       | 26     | 36       | 29         | 33       | 14                      | 4            | 3               | 21                  | 12               | 8                  |
| 1878.....           | 86                | 1.9       | 41     | 45       | 35         | 51       | 3                       | 5            | 3               | 14                  | 57               | 4                  |
| 1879.....           | 311               | 7.4       | 164    | 147      | 130        | 181      | 3                       | 6            | 4               | 37                  | 255              | 6                  |
| 1880.....           | 468               | 10.0      | 215    | 253      | 216        | 252      | 22                      | 30           | 11              | 143                 | 243              | 19                 |
| 1876-1880.....      | 1,007             | 4.5       | 480    | 527      | 452        | 555      | 45                      | 47           | 28              | 236                 | 602              | 49                 |
| 1881.....           | 138               | 3.0       | 79     | 59       | 62         | 76       | 11                      | 25           | 12              | 41                  | 45               | 4                  |
| 1882.....           | 45                | 0.9       | 24     | 21       | 16         | 29       | .....                   | 3            | 16              | 7                   | 18               | 1                  |
| 1883.....           | 34                | 0.6       | 17     | 17       | 14         | 20       | 1                       | 1            | 5               | 9                   | 16               | 2                  |
| 1884.....           | 94                | 1.8       | 39     | 55       | 41         | 56       | .....                   | .....        | 8               | 28                  | 57               | 4                  |
| 1885.....           | 91                | 1.7       | 36     | 55       | 48         | 43       | .....                   | 3            | 6               | 24                  | 38               | 20                 |
| 1881-1885.....      | 405               | 1.6       | 195    | 210      | 181        | 224      | 12                      | 32           | 47              | 109                 | 174              | 31                 |
| 1886.....           | 88                | 1.5       | 46     | 42       | 29         | 59       | .....                   | 13           | 2               | 41                  | 30               | 2                  |
| 1887.....           | 266               | 4.2       | 120    | 146      | 95         | 171      | 9                       | 16           | 4               | 80                  | 154              | 3                  |
| 1888.....           | 207               | 3.1       | 101    | 106      | 91         | 116      | 1                       | 29           | 10              | 87                  | 80               | .....              |
| 1889.....           | 51                | 0.8       | 24     | 27       | 14         | 37       | 3                       | 2            | 6               | 14                  | 25               | 1                  |
| 1890.....           | 16                | 0.2       | 11     | 5        | 6          | 10       | .....                   | 3            | .....           | 2                   | 8                | 3                  |
| 1886-1890.....      | 628               | 2.0       | 302    | 326      | 235        | 393      | 13                      | 63           | 22              | 224                 | 297              | 9                  |
| 1891.....           | 33                | 0.5       | 17     | 16       | 12         | 21       | 1                       | 3            | .....           | 9                   | 17               | 3                  |
| 1892.....           | 67                | 0.9       | 38     | 29       | 21         | 46       | 1                       | 4            | 4               | 20                  | 38               | .....              |
| 1893.....           | 193               | 2.6       | 86     | 107      | 75         | 118      | 1                       | 23           | 3               | 68                  | 97               | 1                  |
| 1894.....           | 123               | 1.7       | 59     | 64       | 52         | 71       | 2                       | 8            | 2               | 55                  | 56               | .....              |
| 1895.....           | 107               | 1.4       | 52     | 55       | 42         | 65       | 1                       | 2            | 3               | 37                  | 63               | 1                  |
| 1891-1895.....      | 523               | 1.4       | 252    | 271      | 202        | 321      | 6                       | 40           | 12              | 189                 | 271              | 5                  |
| 1896.....           | 53                | 0.7       | 30     | 23       | 24         | 29       | .....                   | 2            | 1               | 9                   | 33               | 8                  |
| 1897.....           | 29                | 0.4       | 15     | 14       | 13         | 16       | 1                       | 1            | 4               | 10                  | 12               | 1                  |
| 1898.....           | 21                | 0.3       | 10     | 11       | 14         | 7        | .....                   | 1            | 1               | 13                  | 4                | 2                  |
| 1899.....           | 29                | 0.4       | 17     | 12       | 13         | 16       | .....                   | 3            | .....           | 6                   | 19               | 1                  |
| 1900.....           | 34                | 0.3       | 24     | 10       | 22         | 12       | .....                   | 1            | 6               | 16                  | 11               | .....              |
| 1896-1900.....      | 166               | 0.4       | 96     | 70       | 86         | 80       | 1                       | 8            | 12              | 54                  | 79               | 12                 |
| Total, 35 years..   | 5,718             | 3.0       | 2,759  | 2,959    | 1,879      | 2,399    | 200                     | 354          | 390             | 1,670               | 2,827            | 277                |

\* Not including Providence city.

† Records incomplete.

## CROUP, DIPHTHERIA, AND SCARLET FEVER.

*Season and Mortality.*

The following Table is continued, to show by comparison the influence of season in regard to the mortality from croup and scarlet fever for forty-seven years, and diphtheria for forty-three years. The Table will give the average monthly and quarterly percentages of deaths from each cause:

TABLE LXXXIX.

| MONTHS.             | CROUP.               |           | DIPHTHERIA.          |           | SCARLET FEVER.       |           |
|---------------------|----------------------|-----------|----------------------|-----------|----------------------|-----------|
|                     | —<br>1853-1900.      |           | —<br>1858-1900.      |           | —<br>1853-1900.      |           |
|                     | Number<br>of deaths. | Per cent. | Number<br>of deaths. | Per cent. | Number<br>of deaths. | Per cent. |
| January.....        | 404                  | 12.70     | 591                  | 9.74      | 784                  | 12.23     |
| February.....       | 354                  | 11.12     | 447                  | 7.37      | 715                  | 11.15     |
| March.....          | 291                  | 9.15      | 467                  | 7.70      | 639                  | 9.97      |
| First Quarter.....  | 1,049                | 32.97     | 1,505                | 24.81     | 2,138                | 33.35     |
| April.....          | 233                  | 7.32      | 418                  | 6.89      | 556                  | 8.67      |
| May.....            | 166                  | 5.22      | 417                  | 6.88      | 574                  | 8.96      |
| June.....           | 140                  | 4.40      | 355                  | 5.85      | 486                  | 7.58      |
| Second Quarter..... | 539                  | 16.94     | 1,190                | 19.62     | 1,616                | 25.21     |
| July.....           | 107                  | 3.36      | 327                  | 5.39      | 366                  | 5.71      |
| August.....         | 90                   | 2.83      | 354                  | 5.83      | 302                  | 4.71      |
| September.....      | 185                  | 5.81      | 450                  | 7.42      | 320                  | 4.99      |
| Third Quarter.....  | 382                  | 12.00     | 1,131                | 18.64     | 988                  | 15.41     |
| October.....        | 333                  | 10.47     | 755                  | 12.45     | 413                  | 6.91      |
| November.....       | 415                  | 13.98     | 787                  | 12.97     | 535                  | 8.34      |
| December.....       | 434                  | 13.64     | 698                  | 11.51     | 691                  | 10.78     |
| Fourth Quarter..... | 1,212                | 38.09     | 2,240                | 36.93     | 1,669                | 26.03     |
| Totals.....         | 3,182                | 100.00    | 6,066                | 100.00    | 6,411                | 100.00    |

## SUICIDE.

The number of deaths by suicide, in Rhode Island, during 1900, was 55, which is 14 more than in the preceding year.

There were 42 male and 13 female decedents from that cause, or a proportion of 3 males to every 1 of the females.

Of the 55, 25 were of native parentage and 35 of foreign.

The means of self-destruction, according to the returns, were as follows :

By cutting throat, 8; by drowning, 9; by hanging, 13; by illuminating gas, 1; by jumping from window, 1; by shooting, 10; by carbolic acid, 3; by chloroform, 1; by cyanide potassium, 3; morphine, 3; paris green, 3.

TABLE XC.

*Mortality in the State from Suicide, 1866 to 1900, inclusive.*

| YEARS.            | Number of Deaths. | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|-------------------|-------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                   |                   |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 1866-1870.....    | 86                | .56       | 67     | 19       | 66         | 20       | 2                       | 7            | 6               | 31                  | 34               | 6                  |
| 1871-1875.....    | 89                | .43       | 61     | 28       | 57         | 32       | 3                       | 9            | 6               | 20                  | 43               | 8                  |
| 1876.....         | 18                | .46       | 15     | 3        | 6          | 12       | .....                   | .....        | 1               | 5                   | 10               | 2                  |
| 1877.....         | 22                | .52       | 16     | 6        | 15         | 7        | .....                   | 2            | 1               | 5                   | 12               | 2                  |
| 1878.....         | 21                | .50       | 16     | 5        | 12         | 9        | 3                       | 2            | .....           | 5                   | 7                | 4                  |
| 1879.....         | 13                | .31       | 10     | 3        | 5          | 8        | .....                   | .....        | .....           | 5                   | 7                | 1                  |
| 1880.....         | 10                | .20       | 5      | 5        | 8          | 2        | .....                   | 1            | 1               | 6                   | 2                | .....              |
| 1876-1880.....    | 84                | .38       | 62     | 22       | 46         | 38       | 3                       | 5            | 3               | 26                  | 38               | 9                  |
| 1881.....         | 23                | .19       | 19     | 4        | 15         | 8        | .....                   | 5            | 3               | .....               | 14               | 1                  |
| 1882.....         | 31                | .64       | 23     | 8        | 23         | 8        | 1                       | 4            | 3               | 8                   | 12               | 3                  |
| 1883.....         | 25                | .47       | 18     | 7        | 11         | 14       | .....                   | .....        | 2               | 8                   | 15               | .....              |
| 1884.....         | 22                | .43       | 20     | 2        | 13         | 9        | .....                   | 1            | 1               | 6                   | 11               | 3                  |
| 1885.....         | 20                | .37       | 16     | 4        | 11         | 9        | 1                       | 1            | 6               | 3                   | 6                | 3                  |
| 1881-1885.....    | 121               | .47       | 96     | 25       | 73         | 48       | 2                       | 11           | 15              | 25                  | 58               | 10                 |
| 1886.....         | 17                | .29       | 16     | 1        | 12         | 5        | 1                       | 3            | 2               | 4                   | 7                | .....              |
| 1887.....         | 16                | .25       | 13     | 3        | 8          | 8        | 2                       | .....        | 2               | 5                   | 7                | .....              |
| 1888.....         | 21                | .42       | 20     | 1        | 15         | 6        | .....                   | 1            | 3               | 6                   | 9                | 2                  |
| 1889.....         | 24                | .38       | 20     | 4        | 9          | 15       | .....                   | 2            | 5               | 7                   | 10               | .....              |
| 1890.....         | 19                | .28       | 15     | 4        | 12         | 7        | 2                       | .....        | 1               | 8                   | 5                | 3                  |
| 1886-1890.....    | 97                | .30       | 84     | 13       | 56         | 41       | 5                       | 6            | 13              | 30                  | 38               | 5                  |
| 1891.....         | 40                | .61       | 27     | 13       | 15         | 25       | 2                       | 2            | .....           | 10                  | 24               | 2                  |
| 1892.....         | 19                | .26       | 15     | 4        | 10         | 9        | .....                   | .....        | 4               | 6                   | 8                | 1                  |
| 1893.....         | 21                | .38       | 18     | 3        | 10         | 11       | .....                   | 2            | .....           | 7                   | 12               | .....              |
| 1894.....         | 45                | .63       | 36     | 9        | 24         | 21       | 1                       | 3            | 5               | 14                  | 19               | 3                  |
| 1895.....         | 31                | .41       | 22     | 9        | 13         | 18       | 3                       | 2            | 5               | 5                   | 13               | 3                  |
| 1891-1895.....    | 156               | .46       | 118    | 38       | 72         | 84       | 6                       | 9            | 14              | 42                  | 76               | 9                  |
| 1896.....         | 38                | .51       | 28     | 10       | 20         | 18       | 2                       | 1            | 2               | 11                  | 20               | 2                  |
| 1897.....         | 41                | .58       | 33     | 8        | 21         | 20       | .....                   | 4            | 5               | 11                  | 16               | 3                  |
| 1898.....         | 46                | .67       | 38     | 8        | 20         | 26       | .....                   | 3            | 4               | 11                  | 24               | 1                  |
| 1899.....         | 41                | .55       | 30     | 11       | 18         | 23       | 1                       | 2            | 1               | 7                   | 27               | 3                  |
| 1900.....         | 55                | .62       | 42     | 13       | 25         | 30       | 1                       | 2            | 7               | 24                  | 19               | 2                  |
| 1896-1900.....    | 221               | .58       | 171    | 50       | 104        | 117      | 4                       | 12           | 19              | 67                  | 108              | 11                 |
| Total, 35 years.. | 854               | .45       | 659    | 195      | 474        | 380      | 25                      | 59           | 76              | 241                 | 395              | 58                 |

\* Exclusive of Providence city.

## WHOOPING COUGH.

The number of deaths from whooping cough, returned in 1900, was the same as the number in 1899.

Of the 86 decedents from whooping cough, 31 were males and 55 were females.

There were 34 decedents of native parentage and 52 of foreign. Eighty-four of the decedents were under 5 years of age.

The following Table will present the mortality from whooping cough, for thirty-five years, 1866-1900, inclusive, with the death rate, sex, parentage, etc., of the decedents:

TABLE XCI.

*Mortality in the State from Whooping Cough, 1866 to 1900, inclusive.*

| YEARS.             | Number of Deaths | Per cent. | SEX.   |          | PARENTAGE. |          | DIVISIONS OF THE STATE. |              |                 |                     |                  |                    |
|--------------------|------------------|-----------|--------|----------|------------|----------|-------------------------|--------------|-----------------|---------------------|------------------|--------------------|
|                    |                  |           | Males. | Females. | Native.    | Foreign. | Bristol County.         | Kent County. | Newport County. | Providence County.* | Providence City. | Washington County. |
| 5 years, 1866-1870 | 153              | .99       | 78     | 75       | 68         | 85       | 2                       | 13           | 14              | 54                  | 63               | 7                  |
| 1871-1875.....     | 160              | .78       | 65     | 95       | 64         | 96       | 4                       | 11           | 13              | 56                  | 73               | 3                  |
| 1876.....          | 48               | 1.17      | 19     | 29       | 20         | 28       | 5                       | 3            | 1               | 7                   | 31               | 1                  |
| 1877.....          | 32               | .72       | 18     | 14       | 6          | 26       | .....                   | .....        | 1               | 15                  | 16               | .....              |
| 1878.....          | 54               | 1.22      | 26     | 28       | 30         | 24       | .....                   | 1            | .....           | 9                   | 43               | 1                  |
| 1879.....          | 43               | .96       | 17     | 26       | 22         | 21       | .....                   | 11           | 1               | 12                  | 15               | 4                  |
| 1880.....          | 20               | .41       | 10     | 10       | 7          | 13       | .....                   | .....        | 2               | 6                   | 11               | 1                  |
| 1876-1880.....     | 197              | .88       | 90     | 107      | 85         | 112      | 5                       | 15           | 5               | 49                  | 116              | 7                  |
| 1881.....          | 68               | 1.36      | 33     | 35       | 30         | 38       | .....                   | 2            | 2               | 24                  | 40               | .....              |
| 1882.....          | 71               | 1.40      | 33     | 38       | 32         | 39       | .....                   | 4            | .....           | 26                  | 40               | 1                  |
| 1883.....          | 9                | .17       | 6      | 3        | 5          | 4        | 1                       | .....        | .....           | 4                   | 4                | .....              |
| 1884.....          | 43               | .83       | 17     | 26       | 23         | 20       | 5                       | .....        | 2               | 6                   | 28               | 2                  |
| 1885.....          | 42               | .79       | 23     | 19       | 24         | 18       | .....                   | 1            | 4               | 9                   | 24               | 4                  |
| 1881-1885.....     | 233              | .90       | 112    | 121      | 114        | 119      | 6                       | 7            | 8               | 69                  | 136              | 7                  |
| 1886.....          | 49               | .83       | 28     | 21       | 17         | 32       | 4                       | 3            | .....           | 18                  | 23               | 1                  |
| 1887.....          | 21               | .32       | 9      | 12       | 10         | 11       | .....                   | .....        | 4               | 6                   | 10               | 1                  |
| 1888.....          | 44               | .75       | 17     | 27       | 16         | 28       | .....                   | 3            | 2               | 11                  | 28               | .....              |
| 1889.....          | 77               | 1.23      | 39     | 38       | 36         | 41       | 1                       | 12           | 1               | 20                  | 43               | .....              |
| 1890.....          | 70               | 1.00      | 25     | 45       | 25         | 45       | 2                       | 2            | 7               | 27                  | 30               | 2                  |
| 1886-1890.....     | 261              | .82       | 118    | 143      | 104        | 157      | 7                       | 20           | 14              | 82                  | 131              | 4                  |
| 1891.....          | 77               | 1.16      | 39     | 38       | 37         | 40       | 3                       | 1            | 3               | 15                  | 51               | 1                  |
| 1892.....          | 25               | .34       | 10     | 15       | 14         | 11       | .....                   | 1            | 3               | 12                  | 9                | .....              |
| 1893.....          | 23               | .31       | 8      | 15       | 9          | 11       | 1                       | .....        | 4               | 9                   | 7                | 2                  |
| 1894.....          | 129              | 1.80      | 52     | 77       | 62         | 67       | 3                       | 19           | 15              | 33                  | 55               | 4                  |
| 1895.....          | 45               | .60       | 19     | 26       | 13         | 32       | .....                   | 8            | 2               | 7                   | 27               | 1                  |
| 1891-1895.....     | 299              | .84       | 128    | 171      | 135        | 164      | 7                       | 29           | 27              | 76                  | 152              | 8                  |
| 1896.....          | 59               | .79       | 25     | 34       | 24         | 35       | 2                       | 4            | 7               | 16                  | 24               | 6                  |
| 1897.....          | 56               | .79       | 27     | 29       | 26         | 30       | 1                       | 8            | 11              | 14                  | 17               | 5                  |
| 1898.....          | 96               | 1.39      | 37     | 59       | 50         | 46       | 5                       | 2            | 4               | 24                  | 57               | 4                  |
| 1899.....          | 86               | 1.15      | 30     | 56       | 43         | 43       | 1                       | 5            | 1               | 30                  | 47               | 2                  |
| 1900.....          | 86               | .97       | 31     | 55       | 34         | 52       | 4                       | 6            | 3               | 25                  | 46               | 2                  |
| 1896-1900.....     | 353              | 1.01      | 150    | 233      | 177        | 206      | 13                      | 25           | 26              | 109                 | 191              | 19                 |
| Total, 35 years..  | 1,686            | .88       | 741    | 945      | 747        | 939      | 44                      | 120          | 107             | 495                 | 865              | 55                 |

\* Exclusive of Providence city.



TABLE XCII.

*Presenting the Ratio of Mortality to the Whole Number of Specified Causes of Death, of Twenty Prominent Causes, for twenty-five years, 1876-1900.*

| CAUSES OF DEATH.            | YEARS. |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                             | 1876.  | 1877. | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | 1898. | 1899. | 1900. |
| ACCIDENTS (all kinds).....  | 3.40   | 3.10  | 2.89  | 2.43  | 3.51  | 3.04  | 3.44  | 2.84  | 3.80  | 3.09  | 3.22  | 3.25  | 3.01  | 3.46  | 3.00  | 3.54  | 4.18  | 3.58  | 3.29  | 3.92  | 3.96  | 3.71  | 4.30  | 3.71  | 3.82  |
| APOPLEXY AND PARALYSIS..... | 4.01   | 4.25  | 4.45  | 5.21  | 4.67  | 5.23  | 5.52  | 5.39  | 5.78  | 5.28  | 5.69  | 4.17  | 5.50  | 5.17  | 4.91  | 5.08  | 4.89  | 5.52  | 6.26  | 5.57  | 5.61  | 6.62  | 6.04  | 6.15  | 5.76  |
| BRAIN, DISEASES OF.....     | 3.64   | 3.68  | 3.28  | 3.73  | 3.44  | 3.84  | 3.60  | 3.50  | 2.97  | 3.61  | 3.11  | 3.29  | 3.43  | 3.03  | 3.13  | 3.36  | 3.33  | 3.49  | 3.11  | 3.45  | 4.00  | 4.63  | 4.75  | 3.59  | 3.30  |
| BRONCHITIS.....             | 1.46   | 1.62  | 1.89  | 1.47  | 1.98  | 1.80  | 2.08  | 2.04  | 2.29  | 3.09  | 2.96  | 2.77  | 3.42  | 4.20  | 4.01  | 3.74  | 4.16  | 4.24  | 3.57  | 3.66  | 3.69  | 3.19  | 3.43  | 3.24  | 3.56  |
| CANCER.....                 | 2.72   | 3.17  | 2.82  | 2.96  | 2.72  | 3.11  | 2.75  | 3.30  | 3.03  | 3.59  | 2.77  | 2.50  | 2.99  | 3.03  | 2.41  | 2.66  | 2.45  | 2.78  | 3.01  | 3.13  | 3.02  | 3.59  | 4.05  | 3.93  | 3.32  |
| CHOLERA INFANTUM.....       | 6.41   | 6.08  | 3.97  | 3.81  | 5.43  | 5.15  | 6.77  | 4.73  | 6.31  | 5.16  | 6.27  | 5.60  | 7.08  | 6.80  | 8.39  | 8.25  | 8.56  | 8.18  | 6.96  | 6.68  | 7.29  | 6.00  | 6.80  | 6.26  | 6.34  |
| CONSUMPTION.....            | 16.78  | 15.52 | 15.98 | 15.09 | 14.02 | 15.12 | 15.33 | 15.01 | 14.34 | 14.45 | 14.12 | 11.19 | 12.13 | 11.61 | 12.39 | 11.18 | 10.26 | 9.79  | 9.92  | 11.21 | 11.32 | 10.97 | 12.87 | 13.07 | 11.23 |
| CROUP.....                  | 2.61   | 2.23  | 2.20  | 2.28  | 1.45  | 2.16  | 1.60  | 1.40  | 1.55  | 1.74  | 1.55  | 1.79  | 1.19  | 1.38  | 1.19  | 1.01  | 1.20  | .68   | .45   | .40   | .32   | .24   | .13   | .15   | .20   |



## TABLE XCIII.—BIRTHS.

*Occupation of the Fathers.—1900.*

| OCCUPATIONS.                          | Number. | OCCUPATIONS.                 | Number. |
|---------------------------------------|---------|------------------------------|---------|
| Actors.....                           | 1       | Screw Makers.....            | 1       |
| Agents and Canvassers .....           | 30      | Shirt.....                   | 1       |
| Architects.....                       | 7       | Shoe.....                    | 71      |
| Artists.....                          | 6       | Spectacle.....               | 1       |
| Assayers and Analytical Chemists..... | 8       | Spindle.....                 | 4       |
| Auctioneers .....                     | 1       | Tool.....                    | 25      |
| Baggage Masters.....                  | 7       | Blacksmiths.....             | 118     |
| Bakers.....                           | 85      | Bleachers and Fullers.....   | 23      |
| Bankers and Brokers.....              | 6       | Boat Builders .....          | 1       |
| Bank Officers.....                    | 4       | Boatmen .....                | 1       |
| Barbers and Hair Dressers.....        | 115     | Bookbinders.....             | 3       |
| Bartenders .....                      | 59      | Bookkeepers .....            | 64      |
| Belt Makers .....                     | 1       | Bootblacks .....             | 9       |
| Bobbin .....                          | 6       | Bottlers .....               | 12      |
| Boiler .....                          | 29      | Brakemen .....               | 37      |
| Bolt .....                            | 9       | Brewers.....                 | 14      |
| Box.....                              | 10      | Brick and Stone Layers.....  | 16      |
| Braid.....                            | 1       | Building Movers .....        | 3       |
| Brick.....                            | 4       | Butchers and Marketmen.....  | 80      |
| Brush and Broom.....                  | 3       | Butlers .....                | 6       |
| Button.....                           | 2       | Cab Drivers and Hackmen..... | 6       |
| Cabinet.....                          | 9       | Carders.....                 | 30      |
| Carriage, and Trimmers .....          | 5       | Card Grinders.....           | 3       |
| Chandelier.....                       | 1       | Carpenters.....              | 461     |
| Cigar .....                           | 10      | Chasers.....                 | 8       |
| Clock and Watch.....                  | 6       | Civil Engineers.....         | 10      |
| Comb.....                             | 2       | Clergymen .....              | 20      |
| Core.....                             | 8       | Clerks and Salesmen.....     | 393     |
| Harness and Saddle.....               | 9       | Clothiers .....              | 10      |
| Mattress.....                         | 2       | Coachmen.....                | 31      |
| Pattern.....                          | 11      | Coal and Wood Dealers.....   | 13      |
| Reed and Harness.....                 | 5       | Dry Goods.....               | 4       |
| Sail.....                             | 2       | Fish and Oyster.....         | 10      |
| Sash and Blind.....                   | 2       | Furniture.....               | 4       |

TABLE XCIII.—Continued.

| OCCUPATIONS.                     | Number. | OCCUPATIONS.                            | Number. |
|----------------------------------|---------|-----------------------------------------|---------|
| Grain Dealers .....              | 3       | Elevatormen .....                       | 2       |
| Hardware .....                   | 4       | Enamelers.....                          | 3       |
| Ice.....                         | 4       | Engineers and Firemen.....              | 186     |
| Junk.....                        | 23      | Engravers .....                         | 18      |
| Leather.....                     | 1       | Expressmen .....                        | 20      |
| Liquor .....                     | 55      | Farmers.....                            | 302     |
| Lumber.....                      | 1       | File Cutters.....                       | 34      |
| Music.....                       | 1       | File Forgers.....                       | 6       |
| News.....                        | 3       | Finishers .....                         | 18      |
| Oil.....                         | 2       | Brass.....                              | 7       |
| Paper.....                       | 3       | Fire Company Members.....               | 7       |
| Provision .....                  | 6       | Fishermen and Oystermen.....            | 44      |
| Shoe.....                        | 4       | Florists .....                          | 15      |
| Stove.....                       | 1       | Folders .....                           | 10      |
| Tea.....                         | 2       | Foundrymen .....                        | 2       |
| Collectors .....                 | 17      | Fruiterers .....                        | 13      |
| Commercial Travelers .....       | 21      | Furniture Movers.....                   | 2       |
| Compositors.....                 | 6       | Gardeners .....                         | 5       |
| Concreters .....                 | 4       | Gas Fitters .....                       | 8       |
| Conductors and Motormen .....    | 91      | Glass Blowers and Workers.....          | 2       |
| Confectioners.....               | 9       | Grocers.....                            | 135     |
| Contractors and Builders.....    | 20      | Hatters .....                           | 1       |
| Cooks and Caterers.....          | 33      | Heaters.....                            | 1       |
| Coopers.....                     | 12      | Horse Trainers.....                     | 1       |
| Coppersmiths.....                | 3       | Hostlers .....                          | 42      |
| Cutters .....                    | 4       | Hotel and Inn Keepers.....              | 8       |
| Velvet.....                      | 5       | Saloon and Restaurant.....              | 39      |
| Decorators .....                 | 3       | Ice-men.....                            | 2       |
| Dentists .....                   | 6       | Inspectors.....                         | 10      |
| Designers .....                  | 11      | Insurance Agents.....                   | 35      |
| Die Cutters .....                | 4       | Real Estate.....                        | 8       |
| Die Sinkers.....                 | 4       | Inventors.....                          | 1       |
| Draughtsmen.....                 | 12      | Iron Rollers and Workers.....           | 18      |
| Drivers.....                     | 40      | Janitors.....                           | 31      |
| Druggists and Apothecaries ..... | 19      | Jewelers.....                           | 210     |
| Dyers.....                       | 66      | Jobbers.....                            | 1       |
| Electricians.....                | 54      | Journalists (Editors and Reporters).... | 9       |

TABLE XCIII.—Continued.

| OCCUPATIONS.                 | Number. | OCCUPATIONS.                           | Number. |
|------------------------------|---------|----------------------------------------|---------|
| Journeyman.....              | 32      | Peddlers.....                          | 147     |
| Knitters.....                | 11      | Photographers and Lithographers.....   | 5       |
| Laborers.....                | 2,508   | Physicians.....                        | 30      |
| Lamplighters.....            | 2       | Piano Tuners ..                        | 1       |
| Lapidaries.....              | 8       | Plasterers and Stucco Workers.....     | 21      |
| Lathers.....                 | 7       | Platers (Electro).....                 | 8       |
| Laundrymen.....              | 13      | Gold.....                              | 1       |
| Lawyers.....                 | 15      | Silver.....                            | 1       |
| Life Saving Service Men..... | 4       | Plumbers.....                          | 67      |
| Linemen... ..                | 16      | Polishers.....                         | 33      |
| Locksmiths.....              | 1       | Gold.....                              | 2       |
| Longshoremen.....            | 8       | Silver.....                            | 2       |
| Loom Fixers.....             | 83      | Pork and Meat Cutters and Pork Packers | 12      |
| Lumbermen.....               | 1       | Porters ..                             | 22      |
| Machinists.....              | 517     | Postmasters.....                       | 3       |
| Mail Carriers.....           | 17      | Pressmen.....                          | 2       |
| Managers.....                | 18      | Printers.....                          | 37      |
| Manufacturers.....           | 24      | Proofreaders.....                      | 1       |
| Mariners.....                | 5       | Public Officers.....                   | 8       |
| Masons.....                  | 90      | Railroad Officials.....                | 5       |
| Masseurs.....                | 1       | Employees.....                         | 19      |
| Mechanics.....               | 27      | Refiners.....                          | 3       |
| Merchants.....               | 67      | Riggers.....                           | 2       |
| Melters.....                 | 4       | Roll Coverers.....                     | 9       |
| Milkmen.....                 | 32      | Roofers.....                           | 2       |
| Millers.....                 | 9       | Rubber Workers.....                    | 122     |
| Millwrights.....             | 3       | Sailors.....                           | 17      |
| Moulders.....                | 90      | Sea Captains and Ship Masters.....     | 6       |
| Musicians.....               | 18      | Secretaries.....                       | 4       |
| Operatives.....              | 620     | Servants.....                          | 3       |
| Opticians.....               | 4       | Sextons.....                           | 3       |
| Painters.....                | 212     | Sheriffs, Constables, and Policemen... | 51      |
| Carriage.....                | 5       | Ship Carpenters.....                   | 1       |
| Paper Hangers.....           | 3       | Silversmiths.....                      | 49      |
| Pavers.....                  | 4       | Slaters... ..                          |         |
| Paymasters.....              | 1       | Soldiers.....                          | 13      |
| Pearl Workers.....           | 5       | Spinners.....                          | 88      |

TABLE XCIII.—Concluded.

| OCCUPATIONS.                          | Number. | OCCUPATIONS.                          | Number. |
|---------------------------------------|---------|---------------------------------------|---------|
| Stable Keepers.....                   | 7       | Telephone and Telegraph Operators.... | 15      |
| Stampers.....                         | 1       | Thsmiths .....                        | 33      |
| Stair Builders.....                   | 2       | Tobacconists.....                     | 2       |
| Station Agents.....                   | 5       | Traders.....                          | 3       |
| Stationers.....                       | 1       | Treasurers .....                      | 6       |
| Steam Pipers.....                     | 23      | Trustees .....                        | 1       |
| Stenographers.....                    | 1       | Undertakers....                       | 9       |
| Stereotypers .....                    | 1       | Upholsterers .....                    | 12      |
| Stevadores .....                      | 3       | Valets.....                           | 1       |
| Stewards.....                         | 2       | Veterinary Surgeons.....              | 2       |
| Stockmen .....                        | 1       | Waiters .....                         | 16      |
| Stone Cutters and Marble Workers..... | 66      | Watchmen .....                        | 35      |
| Store Keepers.....                    | 18      | Weavers.....                          | 579     |
| Students .....                        | 2       | Well Diggers.....                     | 2       |
| Surveyors. Highway .....              | 1       | Wheelwrights.....                     | 10      |
| Superintendents and Overseers.....    | 127     | Whitewashers .....                    | 2       |
| Switchmen and Gatemen .....           | 8       | Window Dressers .....                 | 2       |
| Tailors .....                         | 76      | Wire Workers.....                     | 15      |
| Tanners and Curriers.....             | 4       | Wood Cutters.....                     | 6       |
| Taxidermists.....                     | 1       | Wood Finishers.....                   | 5       |
| Teachers and Professors.....          | 24      | Wood Sawyers.....                     | 1       |
| Music.....                            | 7       | Wood Turners.....                     | 10      |
| Teamsters .....                       | 223     | Wool Sorters.....                     | 14      |



## TABLE XCIV.—MARRIAGES.

*Occupations of the Grooms.—1900.*

| OCCUPATIONS.                          | Number. | OCCUPATIONS.                 | Number. |
|---------------------------------------|---------|------------------------------|---------|
| Agents and Canvassers.....            | 9       | Wringer Makers.....          | 4       |
| Architects.....                       | 5       | Blacksmiths.....             | 38      |
| Artists.....                          | 6       | Bleachers and Fullers.....   | 17      |
| Assayers and Analytical Chemists..... | 2       | Boat Builders.....           | 1       |
| Baggage Masters.....                  | 2       | Boatmen.....                 | 1       |
| Bakers.....                           | 29      | Bookbinders.....             | 3       |
| Bankers and Brokers.....              | 11      | Bookkeepers.....             | 44      |
| Barbers.....                          | 47      | Booksellers.....             | 1       |
| Bartenders.....                       | 23      | Bottlers.....                | 5       |
| Bicycle Makers.....                   | 1       | Brakemen.....                | 8       |
| Bobbin.....                           | 6       | Brewers.....                 | 7       |
| Boiler.....                           | 6       | Brick and Stone Layers.....  | 4       |
| Bolt.....                             | 4       | Building Movers.....         | 1       |
| Box.....                              | 10      | Butchers and Marketmen.....  | 19      |
| Brick.....                            | 3       | Butlers.....                 | 3       |
| Brush.....                            | 1       | Buyers.....                  | 1       |
| Button.....                           | 1       | Cab Drivers and Hackmen..... | 2       |
| Cabinet.....                          | 2       | Calenders.....               | 2       |
| Carriage, and Trimmers.....           | 3       | Carders.....                 | 6       |
| Cigar.....                            | 9       | Card Grinders.....           | 3       |
| Clock and Watch.....                  | 7       | Carpenters.....              | 119     |
| Comb.....                             | 2       | Chasers.....                 | 2       |
| Core.....                             | 3       | Circus Performers.....       | 1       |
| Harness and Saddle.....               | 2       | Civil Engineers.....         | 5       |
| Paint.....                            | 2       | Clergymen.....               | 6       |
| Pattern.....                          | 9       | Clerks and Salesmen.....     | 338     |
| Piano.....                            | 1       | Clothiers.....               | 1       |
| Reed.....                             | 1       | Coachmen.....                | 14      |
| Sail.....                             | 1       | Coal and Wood Dealers.....   | 3       |
| Screw.....                            | 1       | Dry Goods.....               | 4       |
| Shirt.....                            | 1       | Fish and Oyster.....         | 6       |
| Shoe.....                             | 21      | Furniture.....               | 1       |
| Soap.....                             | 1       | Grain.....                   | 2       |
| Tool.....                             | 18      | Hardware.....                | 5       |

TABLE XCIV.—Continued.

| OCCUPATIONS.                     | Number. | OCCUPATIONS.                           | Number. |
|----------------------------------|---------|----------------------------------------|---------|
| Horse Dealers.....               | 2       | Finishers.....                         | 10      |
| Junk.....                        | 1       | Fire Company Members.....              | 4       |
| Leather.....                     | 1       | Fishermen and Oystermen.....           | 11      |
| Liquor.....                      | 12      | Florists.....                          | 5       |
| Lumber.....                      | 3       | Folders.....                           | 8       |
| Mattress.....                    | 1       | Foundrymen.....                        | 4       |
| News.....                        | 1       | Fruiterers.....                        | 3       |
| Oil ..                           | 2       | Gardeners.....                         | 22      |
| Provision.....                   | 9       | Gasfitters.....                        | 3       |
| Shoe.....                        | 1       | Grocers.....                           | 25      |
| Collectors .....                 | 7       | Gymnast.....                           | 1       |
| Commercial Travelers.....        | 24      | Hatters.....                           | 3       |
| Compositors.....                 | 4       | Hostlers.....                          | 15      |
| Conductors and Motormen.....     | 39      | Hotel and Inn Keepers.....             | 7       |
| Confectioners.....               | 2       | Saloon and Restaurant.....             | 13      |
| Contractors and Builders.....    | 9       | Ice-men.....                           | 4       |
| Cooks and Caterers.....          | 14      | Inspectors.....                        | 7       |
| Coopers ..                       | 1       | Insurance Agents.....                  | 15      |
| Coppersmiths.....                | 1       | Real Estate.....                       | 1       |
| Cutters .....                    | 4       | Iron Workers.....                      | 10      |
| Decorators .....                 | 5       | Janitors.....                          | 6       |
| Dentists ..                      | 7       | Jewelers.....                          | 116     |
| Designers .....                  | 6       | Journalists (Editors and Reporters)... | 7       |
| Die Cutters.....                 | 2       | Knitters .....                         | 7       |
| Die Sinkers.....                 | 2       | Laborers.....                          | 411     |
| Draughtsmen.....                 | 8       | Lamp-lighters.....                     | 1       |
| Drivers.....                     | 29      | Lathers.....                           | 1       |
| Druggists and Apothecaries ..... | 17      | Laundrymen.....                        | 9       |
| Dyers.....                       | 25      | Lawyers.....                           | 14      |
| Electricians.....                | 27      | Life Saving Service Men.....           | 4       |
| Elevatormen.....                 | 2       | Linemen.....                           | 9       |
| Enamelers.....                   | 1       | Longshoremen.....                      | 6       |
| Engineers and Firemen.....       | 67      | Loom Fixers.....                       | 22      |
| Engravers.....                   | 6       | Lumbermen.....                         | 1       |
| Expressmen.....                  | 10      | Machinists.....                        | 251     |
| Farmers.....                     | 153     | Mail Carriers.....                     | 5       |
| File Cutters.....                | 16      | Magician.....                          | 1       |
| File Forgers.....                | 2       | Managers .....                         | 7       |

TABLE XCIV.—Continued.

| OCCUPATIONS.                           | Number. | OCCUPATIONS.                           | Number. |
|----------------------------------------|---------|----------------------------------------|---------|
| Manufacturers.....                     | 26      | Riggers.....                           | 1       |
| Mariners.....                          | 5       | Roll Coverers.....                     | 2       |
| Masons.....                            | 25      | Roofers.....                           | 1       |
| Mechanics.....                         | 23      | Rubber Workers.....                    | 36      |
| Merchants.....                         | 36      | Sailors.....                           | 19      |
| Messengers.....                        | 1       | Sea Captains and Ship Masters.....     | 5       |
| Milkmen.....                           | 7       | Secretaries.....                       | 3       |
| Millers.....                           | 3       | Servants.....                          | 1       |
| Millwrights.....                       | 4       | Sextons.....                           | 1       |
| Miners.....                            | 2       | Sheriffs, Constables, and Policemen... | 9       |
| Moulders.....                          | 52      | Ship Builders.....                     | 1       |
| Musicians.....                         | 12      | Ship Carpenters.....                   | 3       |
| Naval Officers.....                    | 3       | Silversmiths.....                      | 17      |
| Nurses.....                            | 3       | Soldiers.....                          | 8       |
| Operatives.....                        | 237     | Spinners.....                          | 47      |
| Painters and Glaziers.....             | 70      | Stable Keepers.....                    | 4       |
| Painters, Carriage.....                | 5       | Stampers.....                          | 2       |
| Paper Hangers.....                     | 2       | Steam Pipers.....                      | 8       |
| Pearl Workers.....                     | 1       | Stenographers.....                     | 1       |
| Peddlers.....                          | 17      | Stevedores.....                        | 1       |
| Photographers and Lithographers.....   | 3       | Stewards.....                          | 5       |
| Physicians.....                        | 17      | Stone Cutters and Marble Workers....   | 13      |
| Plano Movers.....                      | 1       | Store Keepers.....                     | 7       |
| Plano Tuners.....                      | 3       | Students.....                          | 11      |
| Pilots.....                            | 2       | Superintendents and Overseers.....     | 40      |
| Plasterers and Stucco Workers.....     | 9       | Switchmen and Gatemen.....             | 3       |
| Platers.....                           | 2       | Tailors.....                           | 27      |
| Plumbers.....                          | 32      | Teachers and Professors.....           | 11      |
| Polishers.....                         | 22      | Teamsters.....                         | 120     |
| Silver.....                            | 2       | Telegraph Operators.....               | 3       |
| Pork and Meat Cutters and Pork Packers | 7       | Tinsmiths.....                         | 10      |
| Porters.....                           | 10      | Traders.....                           | 1       |
| Pressmen.....                          | 1       | Treasurers.....                        | 1       |
| Printers.....                          | 29      | Trimmers.....                          | 2       |
| Public Officers.....                   | 2       | Undertakers.....                       | 6       |
| Publishers.....                        | 3       | Upholsterers.....                      | 4       |
| Railroad Employees.....                | 15      | Valots.....                            | 1       |
| Refiners.....                          | 3       | Veterinary Surgeons.....               | 4       |

TABLE XCIV.—Concluded.

| OCCUPATIONS.          | Number. | OCCUPATIONS.      | Number. |
|-----------------------|---------|-------------------|---------|
| Walters.....          | 26      | Wood Sawyers..... | 1       |
| Watchmen.....         | 8       | Wood Turners..... | 5       |
| Weavers.....          | 221     | Wood Workers..... | 4       |
| Window Dressers ..... | 2       | Wool Sorters..... | 8       |
| Wire Workers.....     | 4       |                   |         |

TABLE XCV.

*Occupations and Ages of Decedents, from June 1, 1852, to January 1, 1901, comprising a period of forty-eight years and seven months.*  
(OCCUPATIONS UNDER TEN, AND AGES UNDER TWENTY, EXCLUDED.)

| OCCUPATION.                | Total Mortality. | Aggregate Ages. | Average Age. | OCCUPATIONS.                  | Total Mortality. | Aggregate Ages. | Average Age. |
|----------------------------|------------------|-----------------|--------------|-------------------------------|------------------|-----------------|--------------|
| MALES.                     |                  |                 |              |                               |                  |                 |              |
| Actors.....                | 15               | 522             | 34.80        | Pump and Block Makers.....    | 14               | 788             | 55.71        |
| Agents.....                | 281              | 14,863          | 52.89        | Rope.....                     | 25               | 1,672           | 66.88        |
| Architects.....            | 17               | 955             | 56.17        | Sail.....                     | 38               | 2,207           | 58.08        |
| Artists.....               | 41               | 2,129           | 51.92        | Sash and Blind.....           | 10               | 502             | 50.20        |
| Bakers.....                | 176              | 11,379          | 64.65        | Shoe.....                     | 656              | 37,974          | 57.89        |
| Bankers.....               | 167              | 10,024          | 60.02        | Tool.....                     | 40               | 2,112           | 52.80        |
| Bank Officers.....         | 69               | 4,441           | 64.36        | Watch and Clock.....          | 44               | 2,460           | 55.91        |
| Barbers.....               | 281              | 9,936           | 35.36        | Blacksmiths and Farriers..... | 757              | 41,194          | 54.42        |
| Bartenders.....            | 54               | 1,932           | 35.78        | Bleachers and Fullers.....    | 72               | 3,640           | 50.56        |
| Belt Makers.....           | 13               | 760             | 58.46        | Boatmen.....                  | 92               | 1,797           | 56.16        |
| Boiler.....                | 83               | 3,480           | 41.93        | Boat Builders.....            | 32               | 1,999           | 62.47        |
| Box.....                   | 23               | 1,070           | 46.52        | Bookbinders.....              | 27               | 1,278           | 47.33        |
| Broom and Brush.....       | 16               | 813             | 50.81        | Bookkeepers.....              | 452              | 20,432          | 45.20        |
| Cabinet.....               | 144              | 8,419           | 58.46        | Brakemen.....                 | 139              | 4,184           | 30.10        |
| Carriage and Trimmers..... | 78               | 4,332           | 56.54        | Brewers.....                  | 23               | 1,114           | 48.43        |
| Cigar.....                 | 110              | 5,052           | 45.93        | Brick and Stone Layers.....   | 14               | 663             | 47.36        |
| Harness.....               | 138              | 6,971           | 50.51        | Butchers and Marketmen.....   | 321              | 16,539          | 51.52        |
| Pattern.....               | 85               | 5,015           | 59.00        | Calico Printers.....          | 59               | 3,243           | 54.96        |

TABLE XCV.—Continued.

| OCCUPATIONS.                  |       | Total Mortality. | Aggregate Ages. | Average Age. | OCCUPATIONS.                     |       | Total Mortality. | Aggregate Ages. | Average Age. |
|-------------------------------|-------|------------------|-----------------|--------------|----------------------------------|-------|------------------|-----------------|--------------|
| MALES.                        |       |                  |                 |              | MALES.                           |       |                  |                 |              |
| Calkers.....                  | 15    | 1,033            | 68.87           | 134          | Cooks and Caterers.....          | 134   | 6,476            | 48.33           |              |
| Cards.....                    | 15    | 806              | 53.73           | 133          | Coopers.....                     | 133   | 8,770            | 65.34           |              |
| Carpenters and Joiners.....   | 2,331 | 130,887          | 56.15           | 16           | Coppersmiths.....                | 16    | 969              | 60.56           |              |
| Chasers.....                  | 18    | 666              | 37.00           | 14           | Decorators.....                  | 14    | 526              | 37.57           |              |
| Civil Engineers.....          | 54    | 2,673            | 49.50           | 50           | Dentists.....                    | 50    | 2,664            | 53.28           |              |
| Clerks and Salesmen.....      | 1,407 | 53,228           | 37.83           | 24           | Designers.....                   | 24    | 1,222            | 50.92           |              |
| Clergymen.....                | 280   | 17,938           | 61.06           | 23           | Die Sinkers.....                 | 23    | 1,104            | 48.00           |              |
| Clothiers.....                | 26    | 904              | 34.96           | 15           | Draughtsmen.....                 | 15    | 505              | 33.67           |              |
| Coachmen.....                 | 209   | 9,271            | 41.36           | 105          | Drivers, Cab, etc.....           | 105   | 4,327            | 41.21           |              |
| Coal and Wood Dealers.....    | 16    | 965              | 60.31           | 62           | Car Conductors and Motormen..... | 62    | 2,481            | 40.02           |              |
| Fish and Oyster.....          | 28    | 1,687            | 60.25           | 122          | Druggists and Apothecaries.....  | 122   | 8,756            | 71.77           |              |
| Junk.....                     | 15    | 826              | 55.07           | 154          | Dyers.....                       | 154   | 7,845            | 50.94           |              |
| Liquor.....                   | 131   | 6,085            | 46.45           | 18           | Electricians.....                | 18    | 689              | 38.28           |              |
| Lumber.....                   | 18    | 1,004            | 55.78           | 499          | Engineers and Firemen.....       | 499   | 24,863           | 49.82           |              |
| Provision.....                | 22    | 1,245            | 56.59           | 148          | Engravers.....                   | 148   | 7,278            | 49.17           |              |
| Shoe.....                     | 14    | 757              | 51.07           | 109          | Expressmen.....                  | 109   | 5,568            | 51.08           |              |
| Collectors.....               | 32    | 1,773            | 55.41           | 7,189        | Farmers.....                     | 7,189 | 483,215          | 67.22           |              |
| Commercial Travellers.....    | 17    | 1,163            | 68.41           | 29           | Finishers.....                   | 29    | 1,399            | 48.24           |              |
| Confectioners.....            | 49    | 2,988            | 46.63           | 97           | File Cutters.....                | 97    | 3,961            | 40.84           |              |
| Contractors and Builders..... | 132   | 7,913            | 49.95           | 12           | Nail.....                        | 12    | 490              | 40.83           |              |



TABLE XCV.—Continued.

| OCCUPATIONS.                  | Total Mortality. | Aggregate Ages. | Average Age. | OCCUPATIONS.                             | Total Mortality. | Aggregate Ages. | Average Age. |
|-------------------------------|------------------|-----------------|--------------|------------------------------------------|------------------|-----------------|--------------|
| MALES.                        |                  |                 |              | MALES.                                   |                  |                 |              |
| Fire Company Members.....     | 10               | 450             | 45.50        | Jewelers.....                            | 1,221            | 51,502          | 42.23        |
| Fishermen and Oystermen.....  | 272              | 14,724          | 54.13        | Journalists (Editors and Reporters)..... | 52               | 2,468           | 47.46        |
| Florists.....                 | 65               | 3,583           | 55.12        | Judges and Justices.....                 | 18               | 1,156           | 64.22        |
| Founders.....                 | 20               | 1,001           | 50.05        | Laborers.....                            | 11,112           | 549,826         | 49.48        |
| Foundrymen.....               | 23               | 1,209           | 52.56        | Lamplighters.....                        | 21               | 1,152           | 54.85        |
| Gardeners.....                | 308              | 20,010          | 59.20        | Lapidaries.....                          | 12               | 430             | 35.83        |
| Gasfitters.....               | 65               | 2,880           | 43.54        | Laundrymen.....                          | 17               | 637             | 37.47        |
| Gilders.....                  | 12               | 535             | 44.58        | Lawyers.....                             | 200              | 11,439          | 57.19        |
| Grocers.....                  | 481              | 26,047          | 54.15        | Linemen.....                             | 14               | 497             | 35.50        |
| Gun and Locksmiths.....       | 26               | 1,457           | 56.04        | Machinists.....                          | 1,797            | 88,002          | 48.97        |
| Hatters.....                  | 26               | 1,400           | 53.85        | Mail Carriers.....                       | 22               | 1,018           | 46.27        |
| Hostlers.....                 | 162              | 7,025           | 43.36        | Manufacturers.....                       | 688              | 42,014          | 61.07        |
| Hotel and Inn Keepers.....    | 183              | 10,108          | 55.23        | Mariners.....                            | 530              | 26,436          | 49.88        |
| Saloon and Restaurant.....    | 207              | 9,543           | 46.10        | Masons.....                              | 975              | 54,060          | 56.06        |
| Stable.....                   | 77               | 4,191           | 54.43        | Mechanics.....                           | 508              | 26,889          | 53.93        |
| Store.....                    | 58               | 3,069           | 52.91        | Melters.....                             | 12               | 667             | 55.58        |
| Inspectors.....               | 20               | 1,051           | 52.55        | Merchants.....                           | 1,404            | 82,113          | 56.48        |
| Inventors.....                | 16               | 1,054           | 65.87        | Milkmen.....                             | 20               | 717             | 35.85        |
| Iron Rollers and Workers..... | 19               | 909             | 47.84        | Millers.....                             | 51               | 2,947           | 57.78        |
| Janitors.....                 | 107              | 5,732           | 53.57        | Millwrights.....                         | 37               | 2,464           | 66.59        |

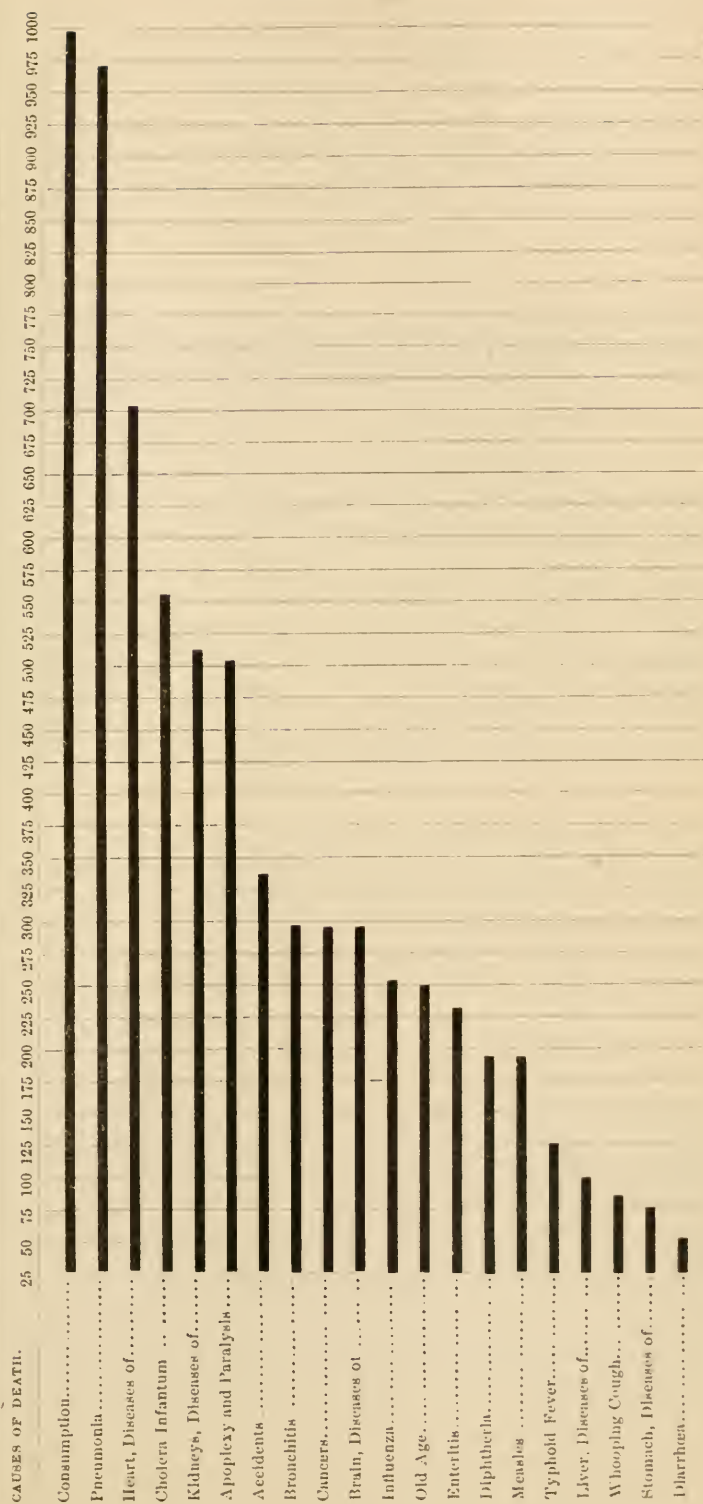
TABLE XCV.—Continued.

| OCCUPATIONS.                           | Total Mortality. | Aggregate Ages. | Average Age. | OCCUPATIONS.                            | Total Mortality. | Aggregate Ages. | Average Age. |
|----------------------------------------|------------------|-----------------|--------------|-----------------------------------------|------------------|-----------------|--------------|
| MALES.                                 |                  |                 |              | MALES.                                  |                  |                 |              |
| Miners.....                            | 18               | 1,018           | 56.56        | Railroad Officials.....                 | 104              | 4,938           | 47.48        |
| Moulders.....                          | 268              | 20,127          | 51.69        | Refiners.....                           | 16               | 739             | 45.56        |
| Musicians.....                         | 85               | 4,085           | 47.47        | Riggers.....                            | 22               | 1,251           | 57.00        |
| Naval Officers.....                    | 29               | 966             | 48.30        | Roll Coverers.....                      | 34               | 1,917           | 57.36        |
| Nurses.....                            | 18               | 994             | 55.22        | Rubber Workers.....                     | 198              | 8,390           | 42.07        |
| Operatives.....                        | 2,701            | 122,126         | 44.23        | Sailors.....                            | 318              | 15,351          | 48.27        |
| Painters and Glaziers.....             | 1,042            | 50,824          | 48.78        | Sea Captains.....                       | 201              | 14,410          | 71.69        |
| Paper Hangers.....                     | 25               | 1,314           | 52.56        | Servants.....                           | 30               | 1,322           | 44.07        |
| Peddlers.....                          | 198              | 9,912           | 50.06        | Sextons.....                            | 13               | 813             | 62.54        |
| Photographers, etc.....                | 30               | 1,433           | 47.77        | Sheriffs and Policemen.....             | 141              | 8,712           | 61.79        |
| Physicians.....                        | 348              | 20,745          | 59.61        | Ship Carpenters.....                    | 85               | 5,808           | 69.04        |
| Pilots.....                            | 24               | 1,336           | 55.67        | Silversmiths.....                       | 133              | 5,929           | 44.57        |
| Plasterers.....                        | 59               | 2,856           | 48.41        | Soldiers.....                           | 157              | 4,872           | 31.03        |
| Platers.....                           | 14               | 893             | 57.14        | Steampipers.....                        | 13               | 521             | 40.08        |
| Plumbers.....                          | 123              | 4,811           | 39.11        | Stevedores.....                         | 19               | 901             | 47.42        |
| Polishers.....                         | 46               | 2,077           | 45.15        | Stewards.....                           | 28               | 1,328           | 47.43        |
| Pork and Meat Cutters and Packers..... | 21               | 998             | 44.67        | Stone Cutters, Marble Workers, etc..... | 312              | 15,257          | 48.90        |
| Porters.....                           | 56               | 2,611           | 46.62        | Students.....                           | 88               | 2,008           | 22.82        |
| Printers.....                          | 211              | 12,188          | 56.95        | Superintendents and Overseers.....      | 397              | 22,069          | 55.66        |
| Public Officers.....                   | 95               | 5,636           | 59.33        | Switchmen, Gate-men, etc.....           | 24               | 1,339           | 55.37        |

TABLE XCV.—Concluded.

| OCCUPATIONS.                           | Total Mortality. | Aggregate Ages. | Average Age. | OCCUPATIONS.                           | Total Mortality. | Aggregate Ages. | Average Age. |
|----------------------------------------|------------------|-----------------|--------------|----------------------------------------|------------------|-----------------|--------------|
| MALES.                                 |                  |                 |              | FEMALES.                               |                  |                 |              |
| Tailors.....                           | 465              | 25,785          | 55.45        | Bookkeepers.....                       | 18               | 538             | 29.89        |
| Tanners and Curriers.....              | 61               | 3,896           | 63.87        | Clerks and Saleswomen.....             | 46               | 1,272           | 27.65        |
| Teachers and Professors.....           | 153              | 7,560           | 49.41        | Cooks.....                             | 59               | 3,125           | 52.97        |
| Teamsters.....                         | 728              | 34,009          | 46.72        | Dressmakers and Seamstresses.....      | 395              | 15,946          | 40.37        |
| Telegraph and Telephone Operators..... | 24               | 731             | 30.46        | Jewelers.....                          | 20               | 564             | 28.20        |
| Tinsmiths.....                         | 144              | 6,940           | 48.19        | Laboring.....                          | 16               | 699             | 43.69        |
| Tobaccoists.....                       | 15               | 874             | 58.27        | Laundresses.....                       | 51               | 2,536           | 49.72        |
| Traders.....                           | 283              | 14,259          | 50.39        | Milliners.....                         | 63               | 2,262           | 36.90        |
| Tradesmen, General.....                | 185              | 8,919           | 48.21        | Nurses.....                            | 20               | 1,054           | 52.70        |
| Undertakers.....                       | 57               | 3,269           | 57.35        | Operatives.....                        | 1,112            | 35,305          | 31.75        |
| Upholsterers.....                      | 61               | 2,520           | 41.31        | Physicians.....                        | 11               | 617             | 58.82        |
| Waiters.....                           | 133              | 5,396           | 40.57        | Rubber Workers.....                    | 23               | 668             | 29.04        |
| Watchmen.....                          | 200              | 11,471          | 57.35        | Servants.....                          | 583              | 27,803          | 47.69        |
| Wheelwrights.....                      | 117              | 7,061           | 60.35        | Sisters of Mercy.....                  | 38               | 1,531           | 40.29        |
| Wire Workers.....                      | 15               | 644             | 42.93        | Tailloresses.....                      | 150              | 7,010           | 46.73        |
| Wood Turners.....                      | 55               | 2,354           | 42.80        | Teachers.....                          | 259              | 13,057          | 40.41        |
| Wool Sorters.....                      | 70               |                 | 49.25        | Telegraph and Telephone Operators..... | 10               | 299             | 29.90        |
|                                        |                  |                 |              | Waitresses.....                        | 12               | 341             | 28.42        |
| Total.....                             | 49,860           | 2,618,887       | 52.52        | Total.....                             | 2,912            | 116,283         | 39.93        |
| FEMALES.                               |                  |                 |              | Grand Total.....                       |                  |                 |              |
| Boarding-house Keepers.....            | 26               | 1,626           | 62.54        |                                        | 52,772           | 2,735,120       | 51.83        |

Diagram III. Exhibiting the comparative mortality by absolute number of decedents, from twenty principal causes of death in Rhode Island, in 1900.





## THE RETURNS OF THE MEDICAL EXAMINERS.

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The number of deaths investigated by the medical examiners during the year 1900 was 529. These deaths resulted from sudden, suspicious, unknown, and violent causes. Of this number 393, or 74.3 per cent., were males; and 136, or 25.7 per cent., were females.

**HOMICIDE.**—The number of deaths from homicide was 15, or 2.8 per cent. of the whole number investigated. Of the 15 cases of homicide, 2 were by stab wounds of abdomen, 1 by stab wounds of chest and abdomen, 1 by pistol-shot wound of abdomen, 1 by fractured skull in street row, 1 by multiple injuries, the result of violent assault on insane man by keeper, 1 by violence to neck and chest (unknown man found in a cellar). There were eight cases of infanticide, 1 suffocation by oil of cinnamon, 2 by drowning, and 5 by neglect and exposure. In only 2 instances of the cases of homicide were the assailants brought to trial, convicted, and sentenced.

**SUICIDE.**—The number of deaths by suicide reported by the medical examiners in 1900 was 59, or 11.1 per cent. of the whole number examined. Death was caused as follows: by drowning, 13; hanging, 13; cutting throat, 6; shooting in head, 8; gun-shot wound of lung, 1; gun-shot wound of neck, 1; by jumping from window, 1; illuminating gas, 1; strangulation, 1; by carbolic acid, 4; by cyanide potassium, 2; by paris green, 2; by opium, 3; by hydrocyanic acid, 1; by phosphorus, 1; by chloroform, 1.

**ACCIDENTS.**—The returns of the medical examiners show 258 deaths from accidents, specified as follows: asphyxia, 18; burns and scalds, 29; drowning, 63; electric car, 19; falls, 46; machinery, 7; railroads, 25; firearms, 4; illuminating gas, 5; poison, 10; electrical shock and burns, 2; elevator, 2; exposure to cold and storm, 4; run over by heavy teams, 4; kicked by horse, 2; thrown from teams, 3; 1 each by explosion of giant powder, by lightning, struck by falling coal, struck by base-ball, injury to leg by upset load of stone, stab wound of abdomen by scissors thrown by companion, slight injury to finger (septicæmia following), injury to



foot by stepping on potato-digger (tetanus), injury to foot while at play (septicæmia), crushed by boat falling upon him, crushed while unloading steel rails, crushed between team and telegraph pole, crushed by lumber in freight car, crushed between coal team and house, head crushed by falling bale of cotton.

ASPHYXIA, 18.—By bed-clothes and overlaying, 7; by food in larynx, 2 (children); by illuminating gas, 6; by caving of sand-bank, 2; by face in pillow while intoxicated, 1.

BURNS AND SCALDS, 29.—In burning building, 6; by bonfire, 2; by clothes taking fire from stove, 8; by burning oil from lamp, 2; explosion of oil stove, 1; by burning clothes, self-ignited while intoxicated, 1; by clothes taking fire from lighted pipe in pocket, 1; by smoking in bed, clothing took fire, 1; by flames from burning wax, 1; by flames from furnace, 1; by falling into barrel or tub of hot water, 2; by pulling over dish of hot water from stove, 1; by falling into vat of boiling dye, 1; manner unknown, 1.

DROWNING, 63.—Bathing or swimming, 19; through ice, 3; in wreck of schooner "Nausett," 4; overboard from boats, 7; by capsizing of boats, 2; by falling into water while playing on edge, 7; from wharf, 2; by falling into water during epileptic attack, 2; and 1 each by walking off bank into river while intoxicated, by falling into water in apoplectic seizure, into tub, while wading out to rock to fish, (child) in rock pond at park; 12 were found in water, circumstances of the drowning unknown.

FALLS, 46.—From building or staging, 7; downstairs, 7; on ground or floor, 16; from team, 2; from window, 3; from hay-loft, 2; and 1 each from piazza, from fence, through scuttle, through trap-door, from trestle, into coal-pocket, into hold of vessel, in dry dock, and 1 unspecified.

POISON, 10.—By wood-alcohol, 4; by overdose of laudanum taken for relief of pain, 1; corrosive sublimate, 1; phosphorus, 1; by mushrooms, 1; by whiskey (unknown quantity drank from jug by child), 1; strychnine pills mistaken for candy, 1.

The whole number of deaths by accident in the State during 1900 was 336, showing that there were 78 deaths by accident where no medical examiner was called. In these cases a physician had been in attendance and had reported the cause of death. In many instances the death was not immediate.

The division of these 336 deaths by accident was as follows (see page 206 of this report): asphyxia, 29; bicycle, 1; burns and scalds, 33; drowning, 64; electric car, 19; elevator, 2; falls, 74;

firearms, 4; by insolation, 13; by lightning, 2; by machinery, 7; by poison, 15; by railroad, 27; various, 46 (pages 207 and 208 of this report).

A comparison of these figures with the cases of accidents which are viewed by medical examiners will show the cases which are more open to suspicion of avoidable violence. The difference (28) is more marked under the cause of falls.

Under sudden deaths which were investigated by medical examiners were as follows: alcoholism, 26; anemia, 1; aneurism of aorta, 1; angina pectoris, 1; apoplexy and cerebral hemorrhage, 15; bronchitis, 4; cholera infantum, 2; convulsions of children, 3; cyanosis, 1; dysentery, 1; endometritis (septic) following abortion, 1; enteritis, 2; epileptic convulsions, 1; gangrene of genitals, 1; gastritis, 2; disease of heart, 51; heat, 7; hernia, 2; indigestion, 1; laryngitis, 1; malnutrition from improper feeding, 6; nephritis and Bright's disease, 16; old age, 2; tubercular peritonitis, 1; puerperal peritonitis following criminal abortion, 1; pneumonia, 12; pulmonary tuberculosis, 13; heart failure from tobacco habit, 1; acute rheumatism, 1; scarlet fever, 1; softening of brain, 1; ulcer (perforating) of stomach, 2; whooping cough, 1; natural unknown causes, 7. There were also 8 still-births.

*Number and Per cent. of Each Group of Cases Viewed by Medical Examiners.—1894-1900.*

| YEARS.    | Homicide. |           | Suicide. |           | Accident.<br>or<br>Negligence. |           | Natural and<br>Unknown Causes.<br>Including Alcohol-<br>ism. |           | Total. |
|-----------|-----------|-----------|----------|-----------|--------------------------------|-----------|--------------------------------------------------------------|-----------|--------|
|           | Number.   | Per cent. | Number.  | Per cent. | Number.                        | Per cent. | Number.                                                      | Per cent. |        |
| 1894..... | 9         | 3.1       | 45       | 15.6      | 141                            | 49.0      | 93                                                           | 32.3      | 288    |
| 1895..... | 6         | 1.7       | 31       | 8.5       | 223                            | 61.4      | 103                                                          | 28.4      | 363    |
| 1896..... | 1         | 0.3       | 27       | 8.3       | 177                            | 54.3      | 121                                                          | 37.1      | 326    |
| 1897..... | 12        | 3.4       | 32       | 9.2       | 157                            | 45.1      | 147                                                          | 42.3      | 348    |
| 1898..... | 12        | 3.1       | 41       | 10.7      | 203                            | 53.0      | 127                                                          | 33.2      | 383    |
| 1899..... | 15        | 3.2       | 39       | 8.4       | 214                            | 45.8      | 199                                                          | 42.6      | 467    |
| 1900..... | 15        | 2.8       | 59       | 11.2      | 258                            | 48.8      | 197                                                          | 37.2      | 529    |



APPENDIX A.

---

NOMENCLATURE OF DISEASES,

OR

CAUSES OF DEATH.



## NAMES OF CAUSES OF DEATH.

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It should be stated that the nomenclature of diseases in the nosological arrangement on the following pages is not intended to include the names of the whole list of morbid phenomena affecting the human organism, but the names of such only as are directly the **cause of death**, or such as ordinarily predispose to or set in motion the morbid processes that end in death.

The classification which has appeared in the previous issues of this report, and which was the result of a report of the committee of the Royal College of Physicians of England, has been modified to accord with the changes which have taken place in our knowledge of the pathological causation of diseases since that classification was made.

The changes which have been made apply more especially to GROUP ONE, the title of which has been changed from Miasmatic to Communicable, and has absorbed all of GROUP TWO, which was known as the Enthetic group. This included glanders, gonorrhœa, hydrophobia, malignant pustule, septicæmia, and syphilis, all of which are at the present day considered as communicable diseases, and probably dependent upon a morbid entity which in some of these diseases has been demonstrated.

In GROUP TWO delirium tremens has been dropped to the supplementary list, being but a symptom or a result of the condition of alcoholism, which, while not strictly correct, is yet more comprehensive in covering this class of causations.

Apthæ, worms, and other parasites should be classed as communicable, the parasites being of a higher order than those producing diphtheria and cholera, and are dropped from this class.

As dropsy is a result or symptom rather than an immediate cause of death, it has been left out.

Gangrene, occurring in old age, has been transferred to the group Developmental Diseases of Old Age. Other conditions where gangrene is found have been traced satisfactorily to traumas, or diseases of the circulatory system.

In CLASS III, in the group of diseases of the Nervous System, cephalitis has been dropped as being obsolete. Convulsions has been transferred to the group of Developmental Diseases of Chil-



dren, all such deaths having been found to be within these age periods.

From the group of the Respiratory System pneumonia has been transferred to the list of Communicable diseases.

In GROUP FOUR, of the Digestive System, appendicitis has been introduced as being a sufficiently distinct and frequent disease, and concerning which statisticians will desire information as to the mortality therefrom. Peritonitis, being a sequel of a traumatic or a septic condition, is usually traceable to a primary cause if inquired into. When no specific cause is obtainable it is placed under Causes Ill-defined. Ascites, being a secondary cause, is relegated to Causes Ill-defined, unless the original cause of the ascites can be ascertained. Hernia is retained in this group, rather than in the group of Accidents and Negligence. Other new diseases which are introduced into this group, as being now more specifically diagnosed, are obstruction of the bowels, colitis, entero colitis, diarrhoea, dysentery, gastro enteritis, and gall-stones—which is retained for want of a more definite term which shall express the conditions causing the formation of the gall-stones—and acute gastritis.

Under diseases of the Urinary System, the word nephria is omitted, the term Bright's disease being retained in the absence of the ability or practicability of the ordinary diagnostician to be able to distinguish the different forms of nephritis, or blood changes or other causes giving rise to the presence of albumen in the urine. Diabetes is divided into the two forms of mellitus and insipidus. While perhaps belonging to the group of nervous diseases, yet it is not yet sufficiently well explained to prove in which group it might be placed, and custom in this case is allowed to prevail. Diseases of the testicles has been omitted as it has, by experience in this department, been found to be dependent upon some pathological change, such as neoplastic formations or traumatic or septic conditions, and the primary cause usually finds its way into these groups. Uremia is placed in the primary group as being expressive of the direct location of the disease, although not being specific as to the causation.

Under diseases of the Generative System we are at the present day able to specify more accurately the condition present, owing to the increased knowledge required of the gynecologist. Ovarian dropsy is therefore dropped, and ovarian tumor, diseases of the uterus, and pyosalpinx are submitted as subdivisions. This group will probably be enlarged as physicians become better educated in specific diagnosis in this special department.

As still-births are classified by themselves they are removed from the group of Developmental Diseases of Children. To

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